JANKI DEVI MEMORIAL COLLEGE
University of Delhi, India

ENVIRONMENT AUDIT REPORT

Prepared by
EHS ALLIANCE SERVICES

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AUDIT CERTIFICATE

CERTIFICATE NO. EHSAC52B

CERTIFICATE

P R E S E N T E D   T O

M/S JANKI DEVI MEMORIAL COLLEGE

Sir Ganga Ram Hospital Marg, Old Rajinder Nagar, Rajinder Nagar, New Delhi, 110060

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

24.05.2022

DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001
WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM

ACKNOWLEDGEMENT

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

We would like to specially thank *Professor Swati Pal - Principal, JDMC* for giving us an opportunity to evaluate the environmental performance of the campus.

We would also like to *thank **Ms Vandana Madan (Convener, AVANI- The Environment Club, JDMC),*** for her Continuous Support and guidance, without which the completion of the project would not have been 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

Prof. Sandhya Garg (Vice-Principal, JDMC)

Dr Shilpa Chaudhary (IQAC coordinator)

Ms Karishma Ahlawat (Member, AVANI, JDMC)

Dr Kanika Kakar (Member, AVANI, JDMC)

Ms Pouriangthanliu (Member, AVANI, JDMC)

Dr Deepak Rawat (Department of Environmental Studies, JDMC)

Ms Ifrah Rehman (Department of Environmental Studies, JDMC)

Mr Avinash (Assistant - Admin, JDMC)

Mr Vijay Pratap (Junior Assistant - Admin, JDMC)

DISCLAIMER

EHS Alliance Services Audit Team has prepared this report for Janki Devi Memorial College 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.

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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 judicially 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 thin "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.

OVERVIEW OF THE COLLEGE

Janki Devi Memorial College, a premier women's college of University of Delhi was founded in 1959 by the famous Gandhian Shri Brij Krishan Chandiwala in memory of his mother Smt. Janki Devi. JDMC aims to provide quality education to young women and empower them to become economically self-reliant, have the confidence to face the vicissitudes of a challenging society, contribute meaningfully to the society at large and acquire the capability to think, lead and change the world.

Situated in New Delhi Ridge in idyllic surroundings with its lush green lawns and imposing building, the college offers twelve under-graduate courses in Liberal Arts, Social Sciences, Mathematics and Commerce

and eight post graduate courses. JDMC is the Centre for Non-Collegiate Women's Education Board (NCWEB) as well as School of Open Learning (SOL), University of Delhi. The college runs several Add-on courses/Certificate courses for students to enhance their skills. JDMC has MOUs with national and international agencies to provide the much-needed real world exposure to its students. It has more than thirty Societies/Clubs/Cells to give its students sufficient platforms to excel in various domains. The college has an extremely dedicated, committed and motivated faculty and staff.

The college offers facilities and infrastructure to create a holistic atmosphere for the pursuit of academic and extracurricular activities. JDMC has recently completed its 60-year journey in pursuit of excellence. The college has provided a nurturing environment to students from all parts of India. It has the distinction of having a disabled-friendly infrastructure along with a strong assistance system in place for the students and faculty with visual disability.

The JDMC-IQAC works in its mandated direction of internalizing and institutionalizing the quality enhancement initiatives. These initiatives encompass various stakeholders, namely students (with the aim of their integrated development), teaching staff and non-teaching staff (enhancing their capabilities

and empowering them) and students' parents and Alumnae (strengthening mutually beneficial relationships).

The college has an impressive building with lush green lawns, an eco-friendly campus with solar lighting and a rain-water harvesting system. The classrooms are clean, comfortable and well ventilated; the premises contain a common room and a medical room with a sanitary napkin vending machine, an open air auditorium; a bank, a multi-cuisine and attractive cafeteria, computer laboratories; an audio-visual room; a photocopying centre as well as a Mother Dairy booth.

Library
JDMC library is a repository of over 1 lakh books and over 100 journals, both academic and general. It is among the first fully automated libraries in Delhi University and provides photocopying and free internet access facilities.

Labs
JDMC has 4 computer labs, 2 Research Rooms, and an A/V room. With 200+ systems and ICT facilities, these rooms provide state-of-the-art teaching/learning environment to the students and faculty.

Canteen
The college has a spacious cafeteria that offers a wide variety of snacks to students and staff at reasonable rates.

Garden
The college Gardens are a source of pride for JDMC. The gardens have won many awards in different categories in the university flower show.

Smart Classroom
The college has 3-5 smart Classrooms which are ICT enabled with interactive smart boards to facilitate the teaching-learning process.

Seminar Room
The Seminar Room has a seating capacity of more than 200 with a state-of-the-art audio-visual system which is updated on a regular basis. The Seminar Room functions as a multi-purpose space used to hold conferences, seminars, etc.

Vision & Mission

JDMC, a premier women's college of University of Delhi, endeavours to promote enduring knowledge which is global in its perspective and yet local in its relevance. Students are challenged & inspired to pursue excellence in liberal and performing arts, humanities, commerce and sports, in an environment which is vibrant & constantly evolving. Founded with a vision to empower women, JDMC continues to strive to help its students to develop a capacity to think, lead and change the world.

MISSION STATEMENT AND CORE VALUES

The egalitarian approach of the institution promotes the inclusion of all sections of the society. The institution is equally inclusive of all its constituencies, with their respective duties, responsibilities and

achievements. The students and staff, belonging to diverse classes, castes, ethnic and religious groups cooperate in a democratic environment to take the college to newer heights of excellence. The institution besides providing education, also serves as a platform for cultural expression and excellence, constantly reminding students of the primary importance of cultural diversity, national integration and tolerance, along with the need to be in harmony with the environment.


Janki Devi Memorial College is committed to the following core values:

- The foundational ideal is enshrined in the upanishadic motto of the college itself, 'Vidyahi paramam Jyoti'- Knowledge is Eternal Light

- Gandhian philosophy of responsible citizenship and empowerment of women through education

- Imparting knowledge based on traditional values, yet with modern and global significance in an evolving academic world

- Education, in combination with technological skills, empowers the students both academically and economically, and proactively contributes to their brighter future

Therefore, the college creates a motivational environment to provide holistic education and personality development of the students, resulting in a synthesis of their career growth and ethical and responsible citizenship

JDMC is providing education to undergraduates and graduates in following department.
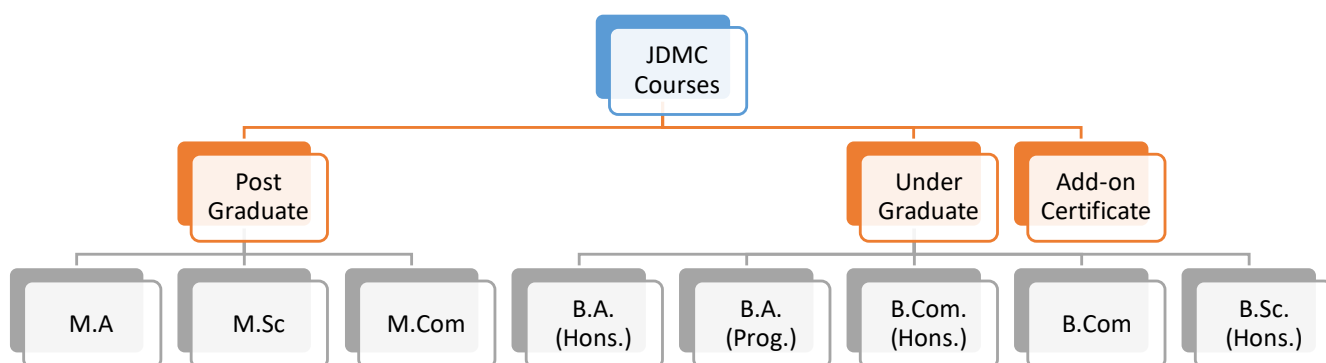
Geo Coordinates from Google maps: 28.6416403,77.1912454

AUDIT PARTICIPANTS

On behalf of College

Name	Designation/Department
Prof. Swati Pal	*Principal, JDMC*
Prof. Sandhya Garg	*Vice-Principal, JDMC*
Ms Vandana Madan	*Convener, AVANI- The Environment Club, JDMC*
Dr Shilpa Chaudhary	*IQAC coordinator*
Ms Karishma Ahlawat	*Member, AVANI, JDMC*
Dr Kanika Kakar	*Member, AVANI, JDMC*
Ms Pouriangthanliu	*Member, AVANI, JDMC*
Dr Deepak Rawat	*Department of Environmental Studies, JDMC*
Ms Ifrah Rehman	*Department of Environmental Studies, JDMC*
Mr Avinash	*Assistant Admin, JDMC*
Mr Vijay Pratap	*Junior Assistant Admin, JDMC*

On behalf of EHS Alliance Services

| Name	Position	Qualifications
Dr. Uday Pratap	*Lead-Auditor*	*Ph.D. , PDIS, QCI – WASH, Lead Auditor ISO 14001:2015*
Ms. Pooja Kaushik	*Co-Auditor*	*M.Sc, Lead Auditor ISO 14001:2015, Field Expert*

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	→	Greening Campus	→	Energy Conservation
Water and waste water management	→	Air quality management	→	Biodiversity Conservation
Legislative Compliance				
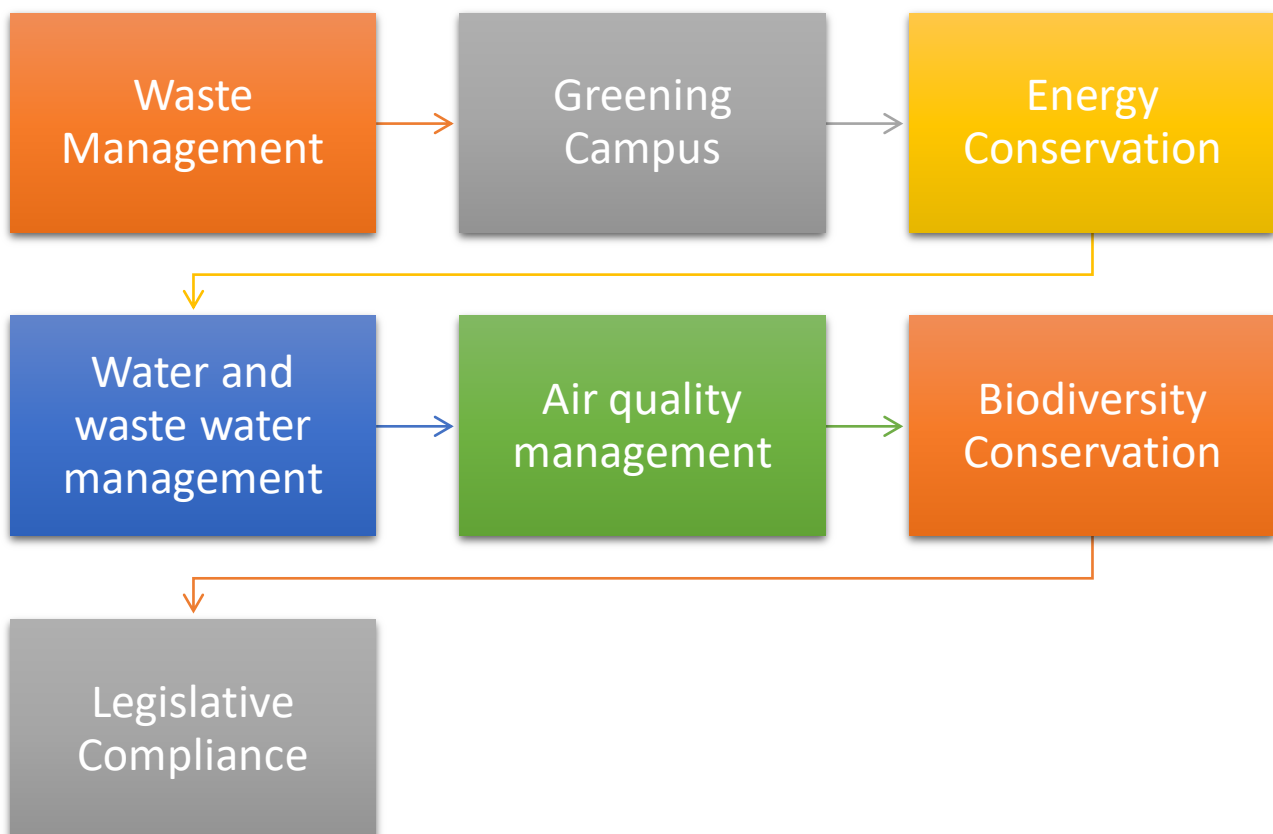
WASTE MANAGEMENT

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 20 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. 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. Eco club of JDMC has initiated a donation camp "Project Warmth 2022- Edition I" for donating clothes to help needy people. It was a 2 week drive which successfully collected 10 cartons.

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. **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.

6. **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.

7. **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 JDMC donates their text books and notes to junior students, or else are auctioned to reseller.

8. **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.

9. **Solid Waste -** The College is managing solid waste by providing it to the MCD.

10. **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.**

- *JDMC use electricity for Lights, fans, computers, smart boards, AC, etc.*
- *Electricity is mainly used in the classrooms, offices, staff room, library, seminar room, hostel, canteen, etc.*
- *JDMC use solar energy For street lights*
- *JDMC use solar water heater in kitchens and hostels*
- *LPG is used for cooking purpose in canteen and hostel mess.*

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

Yes, JDMC 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 lights have been installed in campus*
- *Switch off fans and lights when not in use*
- *Switch off bulbs/LEDs in the well-lighted rooms during sunny afternoons.*
- *Various energy conservation awareness programs for students and staff*
- *Keep the computers and ACs on power saving mode.*

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

JDMC has replaced all conventional bulbs and tube lights with 20W LED Lights.

4. **Do you run "switch off" drills at institute?**

Yes

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

Yes, JDMC put the equipment on power saving mode

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	196633	70.20
Solar PV-kWh	67345	24.04
HSD-Eq.kWh	7288	2.60
LPG Eq. kWh	8835	3.15
Total -kWh	280102	100

ENERGY SHARE IN KWH

■ Electric Grid kWh   ■ Solar PV-kWh   ■ HSD-Eq.kWh   ■ LPG Eq. kWh

LPG Eq. kWh. 3.15%

HSD-Eq.kWh. 2.60%

Solar PV-kWh. 24.04%

Electric Grid kWh. 70.20%
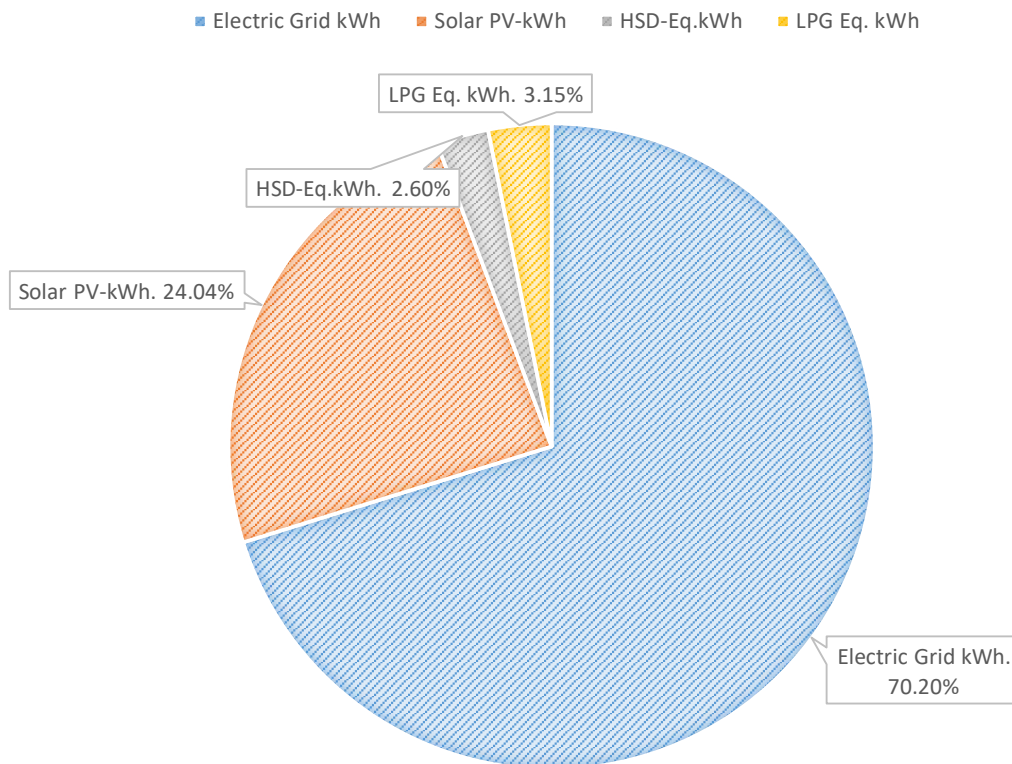
WATER AND WASTE-WATER MANAGEMENT

1. List uses of water in your institute

Basic use of water in campus:

Drinking – 111.71 KL/month

Gardening – 96.00 Kl/month

Kitchen and Toilets – 735.29 KL/month

Hostel – 283.50 KL/Month

Others – 311.19 KL/month

Total = 1537.69 KL/Month

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

JDM college relies on municipal water as a primary source for academic blocks and teachers' houses and 3 bore wells as a secondary source. The campus has one main tank filled 2 times a day from the municipal supply, which then distributes water to 15 small overhead tanks in the academic block. The average time required to fill the tanks is 45-60 mins. JDMC ensures regular maintenance of water tanks and checking of water quality standards on the campus. The water tanks and water coolers are checked every 3 months, and RO systems are regularly changed.

Main tank can store up to 20,000 litres and 15 overhead tanks of 500-1000 litres capacity

Saving Techniques
➢ *The college ensures that the faucets in the washrooms and water filtration units are checked regularly and do not have any leakages.*
➢ *Also, the college has initiated the installation of auto push taps to reduce water wastage.*
➢ *The campus has 48 double-level and 58 single-level systems flush in the academic blocks (36 single and 8 double), hostels (38 double), and teachers' houses (22 single and 2 double).*
➢ *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 Delhi Jal Board (MCD), and they have 3 bore wells as a secondary source

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

Water Consumption (KL per Month)

- Others 20%
- Gardening 6%
- Drinking 7%
- Hostel 19%
- Kitchen and Toilets 48%

Legend:
- Drinking
- Gardening
- Hostel
- Kitchen and Toilets
- Others
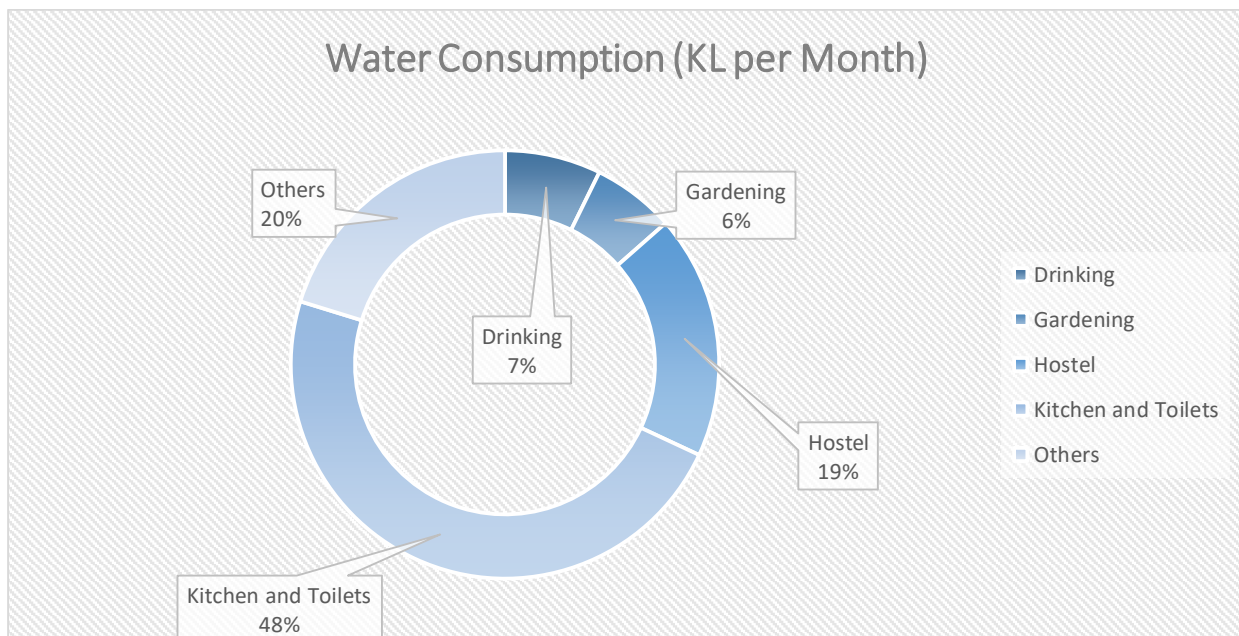
4. Write down ways that could reduce the amount of water used in your institute

Basic ways:
- ➢ *Close the taps after usage*
- ➢ *Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage*
- ➢ *The college ensures that the faucets in the washrooms and water filtration units are checked regularly and do not have any leakages.*
- ➢ *The college has initiated the installation of auto push taps to reduce water wastage.*
- ➢ *The campus has 48 double-level and 58 single-level systems flush in the academic blocks (36 single and 8 double), hostels (38 double), and teachers' houses (22 single and 2 double).*

5. Does your institute harvest rainwater?

Yes, there are three unit for rain water storage

6. Is there any water recycling System?

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?

JDMC has two cars, which runs on petrol and CNG.

4. Provide details of college-owned vehicles?

Details of college-owned vehicles	Buses	Cars	Vans	Other	Total
No. of vehicles	0	2	0	0	2

5. PUC done?

Yes

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

Petrol – 1
Petrol/CNG – 1

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, To promote environment management on the campus, the college follows certain laws:

1) Protection of trees on campus (Delhi Preservation of Tree Act, 1994, National Green Tribunal Act, 2010)

2) De-concretization of trees (National Green Tribunal Act, 2010)

3) Segregation and recycling of Waste (Solid Waste Management Rules 2016)

4) Reduce Noise on campus (Noise pollution (regulation and control) rule, 2000)

5) Reduce single use of plastic, and recycling of plastic (Plastic Waste Management Rules, 2016)

6) Recycling of electronic waste (e-waste Management and Handling Rules 2011)

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

Yes, the eco club Avani of JDMC is conscious about the environment protection and takes proper measures in terms of awareness campaigns, activities, webinar, seminars, etc.

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, JDMC eco cub Avani 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

The institution is a Swachhta action plan institute and has recently certified as the 'District green champion' by Mahatma Gandhi National Centre for Rural Education, Ministry of Education, Govt. of India.

JDMC follow the 5 parameters of Swachhta

> *(i) Energy Management*

> *(ii) Water management*

> *(iii) Sanitation and Cleanliness*

> *(iv) Greenery Management*

> *(v) Waste management.*

The college won the award due to the efforts made by the students, faculty members, and staff to promote and implement swachhta on the campus.

AVANI-the Environmental club and the Department of Environmental studies have organised various events to impart knowledge on cleanliness.

Recently the college has organised a 30-hour add-on certificate course Campus cleanliness in collaboration with various NGOs

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. Furthermore, JDMC organises different activities like Create from Waste, Donation drive, session on 'How to live a zero waste life', Virtual tours on biodiversity of Yamuna, Swachhta campaigns and many more.

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

Yes, JDMC is actively participating in environment protection movements.

- *Swatch Bharat Abhiyan by students at campus*
- *On the directives of the government, JDMC 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. JDMC has received following recognitions and certifications

- ➢ *JDMC sustainable campus certificate*
- ➢ *JDMC Swachhta action plan institute certificate 2021*
- ➢ *Visit feedback of MGNCRE campus*
- ➢ *Swachhta Green Champion Certificate*

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 B++ rated college

BEST PRACTICES

- ➢ A National Webinar on the topic "Just Transitions: Climate Actions With Trees and People" was conducted by Avani in collaboration with Centre for Universal Values and Ethics, JDMC as part of Living Ethically with Nature Series (LENS) on April 21, 2022 as a part of the Environment Festival Ekatvam.

- ➢ The virtual trip to Yamuna Biodiversity Park was organised as a part of EKATVAM – the environment fest 2022. The 1 hour virtual tour helped the students to understand the fun coning of wetland, grassland, and forest ecosystems.

- ➢ On September 6, 2021 Avani organised an intra-college quiz competition for spreading awareness about the SWACHHATA PAKHWADA 2021.

- ➢ The offline quiz competition (Green Date) was organised on April 20, 2022 as a part of EKATVAM – the environment fest 2022.

- ➢ On September 15, 2021 Avani in collaboration with IQAC, organised an event on composting - Taste Your Waste

- ➢ Celebrated International Tiger Day by making face masks

- ➢ Avani, the Environment Club of JDMC on October 6, 2021 successfully organized a virtual tour of the Yamuna Biodiversity Park in coordination with the Yamuna Biodiversity Park to celebrate the Wildlife Week, October 2-8, 2021

- ➢ The Environment Club, Avani along with Centre for Universal Values and Ethics, Janki Devi Memorial College, University of Delhi successfully conducted a webinar on EcoSwaraj: Pathways to Sustainability and Justice on November 10, 2021 as a part of its annual event LENS: Living Ethically with Nature Series

- ➢ AVANI launched its drive "Project Warmth 2022- Edition I" in the last week of February, 2022. The drive aimed at collecting only clothing material. It was a two weeks long drive, and resulted in collection of 10 cartons

- ➢ As part of EKATVAM 2022, AVANI organized screening of documentary "Nature in Mukteshwar" on April 21, 2022 from 2:30PM onwards via Zoom. The documentary evolves around the natural habitat and flora and fauna of Mukteshwar.

➢ An add-on course for creating awareness and an understanding of the important need to strike the right balance between living "with" the environment and living "in" the environment

Below is glimpse of the activities organised by JDMC

E-waste collection drive

Donation drive with NGO Goonj

Conversation on the Environment

Celebrated first ever Environment Festival named EKATVAM 2022

Birdhouse making Activity

Best Out of waste activity

Clothes donation drive

Plantation Drive

JDMC sustainable campus certificate

MGNCRE campus visit Feedback

Swachhta action plan institute certificate 2021

Swachhta Green Champion Certificate

FSSAI vendor Agreement

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 60% of College campus is for landscaping. 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, DG stack height 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**

ANNEXURE PHOTOGRAPHS
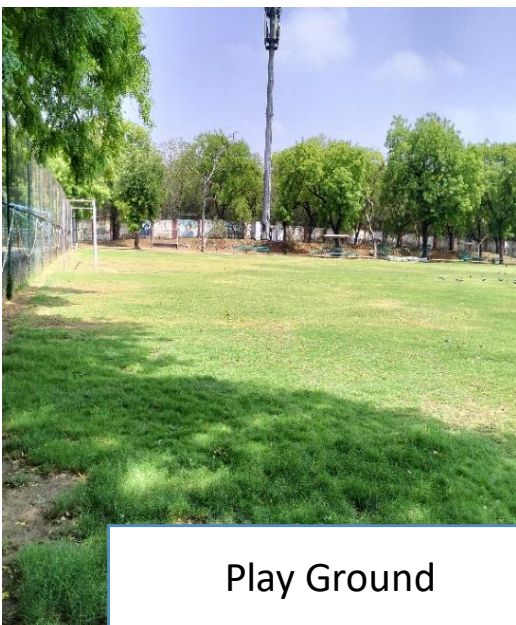

Well maintained Campus

Lush Green Campus

Sprinklers to save water

Indoor plants in corridors

Play Ground

JDMC Green net nursery

Herbal garden with plant name plate

Paved pathways

Rainwater Harvesting Pit - 1

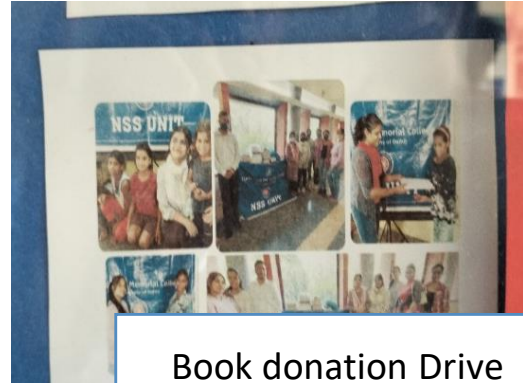Rainwater Harvesting Pit - 2

Rainwater Harvesting Pit - 3

Swachhata Pakhwada Activiy

Donation Drive

Book donation Drive

20 KL reserve fire tanks

Composting for bio degradable waste

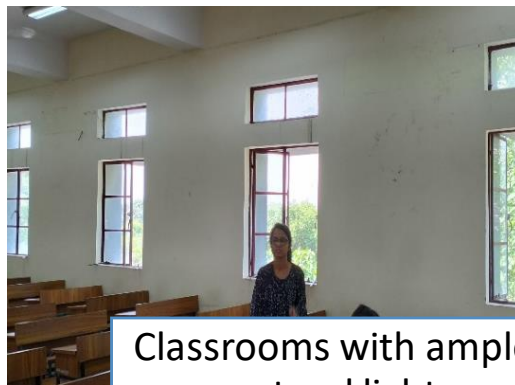Colored coded dustbins in the campus

Solar Power plant installed on the building roofs

Solar heaters installed on the building roofs

Solar lights installed in the campus

Classrooms with ample natural light

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