



Jagannath International Management School

MOR, Pocket-105, Kalkaji, New Delhi-110019

(Affiliated to Guru Gobind Singh Indraprastha University and Approved under Section 2(f) of UGC Act 1956)

Accredited by National Assessment and Accreditation Council (NAAC)

Criteria 7

Supporting Document

(Academic Year 2023-2024)

7.1.6 Report on environment and energy

ENVIRONMENT, ENERGY & GREEN POLICY & AUDIT REPORT

**For the academic
year 2023-2024**



Contents

Particulars	Page no.
1.1 Introduction	3
1.2 Infrastructure and Adequacy of Physical Facilities	4-11
2.1 Green Audit Objectives	12
2.2 Environment and Sustainability into the Curriculum	13-16
2.3 Extension activities of environmental issues for the holistic development	17-18
2.4 Energy Conservation	19-20
2.5 Facilities at Institution for the management of degradable and non-degradable waste	21
2.6 Solid Waste Management	22-23
2.7 Liquid Waste Management	24
2.8 E Waste Management	25
2.9 Waste Recycling System	26
2.10 Water Conservation	27-29
2.11 Green Campus initiatives	30-32
3.1 Green Steps taken by the Institute	33
4.1 Recommendations	34
Annexures	36

1.1 Introduction

Jagannath International Management School was set up in 1997 under the aegis of the Jagan Nath Gupta Memorial Educational Society. As an Institute of excellence in the fields of management and information technology, JIMS has always strived to rework the curriculum in consonance with the changing needs of the corporate world. Regular interaction with leaders in business and academics has helped the Institute in achieving the goal of moving ahead of time. JIMS, Kalkaji has been honoured with the following coveted rankings/awards

- 1st Rank In The Category of Outstanding Excellence In The Survey By GHRDC (2023)
- 7th Rank in the Northern College In All India Ranking In All India BBA College survey By GHRDC (2021)
- JIMS Kalkaji has been awarded top 14th in Top 50 Private BBA Institutes in the Times of India in its latest B-School Survey 2023
- JIMS, Kalkaji has been ranked 9th in Top 70 BBA INSTITUTE RANKINGS 2022 Of India and 6th rank in North Zone of Top Regional Rankings 2022 , 8th Rank in Top BBA Private Institutes in the Times of India in its latest B-School Survey on August 04, 2022.
- 12th Top BBA College All India Ranking In All India BBA College survey By GHRDC (May 2021)
- 7th Rank in the Northern College In All India Ranking In All India BBA College survey By GHRDC (May 2021)

- **Bachelors of Business Administration**

The BBA Program offered by JIMS aims at stimulating the student's intellectually ability and inculcates entrepreneurship and management skills through an appropriate blending of business and management education. The course is intended to provide a strong foundation to students in all the major streams of management with the knowledge and competence in the field of business and management to pursue a professional career. The BBA course in affiliation with GGSIPU is a three-year degree program divided into six semesters. The program is career oriented in its design, course and structure. The institute has roped in the latest technology to facilitate teaching-learning process. The emphasis is more on imparting practical experience along with theoretical pedagogy ensured through regular practical assignments, live projects, personality development sessions, Corporate internships, guest lectures, industrial visits, workshops, seminars etc. along with an opportunity to explore the real corporate world by facilitating the placements of the students after successful completion of the BBA course.

- **Bachelors of Commerce**

With the institute's focus on professional and specialized education and to meet the augmented market demand of commerce graduates, JIMS offers the prestigious B.Com. (Hons) course in

affiliation with Guru Gobind Singh Indraprastha University. The duration of the course is 3 years. A bachelor's(Hons.) degree in commerce is a job-oriented course that prepares the prospective student for a wide variety of careers dealing with the flow of money from an accountant to investment banker, Funds manager to personal Finance Consultant. The objective of the course is to equip the students with domain knowledge of commerce and accounting principles applied to contemporary business practices through financial planning, decision-making and control in organizations.

1.2 Infrastructure and Adequacy of Physical Facilities

The college is located in the prime location of Delhi. It covers an area of 2052 square meter. ensures optimal allocation and utilization of the available Teaching-Learning facilities. The college premises have twelve spacious air-conditioned classrooms rooms each of 66 sqm area with Smart Boards & LED / LCD projectors and two tutorial rooms. There are four computer labs with the latest configuration with 30 computers in each lab. The library measuring 133 sqm is well-stocked and digital. The availability of Plush Auditorium and Conference Rooms enhances the learning facilities for the students. Besides Smart Classrooms there are various labs such as IT and analytics Lab, Finance Lab with N Smart software from NSE, Personal Growth Lab, Communication Lab.



Aerial View of JIMS KALKAJI



Library



Computer lab



Tutorial Room

The entire campus is Wi-Fi enabled with 100 Mbps Fiber leased line as backbone and secured with CCTV cameras & fire alarm system. The college ensures optimal allocation and utilization of the availability of physical facilities such as Boys and Girls Common Rooms with area of 75 Sqm each with Table Tennis and indoor games (Chess, Carom, Board Games) and Gym Equipment and Yogafacilities for doing yoga. The institute has a half-court basketball and badminton court also.

Out-door sports stadia such as DDA Sports Complex, Jasola , Netaji Subhash Sports Complex, siri fort sports complex are hired for field games such as Kabaddi, Volleyball, Hand Ball, Cricket and holding various sports competitions. The Sports activities such as annual sports meet, Alumni Cricket match are organized for both students and the alumni batches of the Institute. There is also medical treatment room for administering first aid and Tie-up with Hospital for emergency medical aid. Exclusive Girls Hostel facility is provided in Kalkaji. There is Tie-up for PG accommodation for boys in Kalkaji and adjacent localities of Govindpuri, Alaknanda and Greater Kailash. The campus also has a well-staffed and equipped canteen serving nutritious food.



Badminton Court



Girls Common Room



Boys Common Room

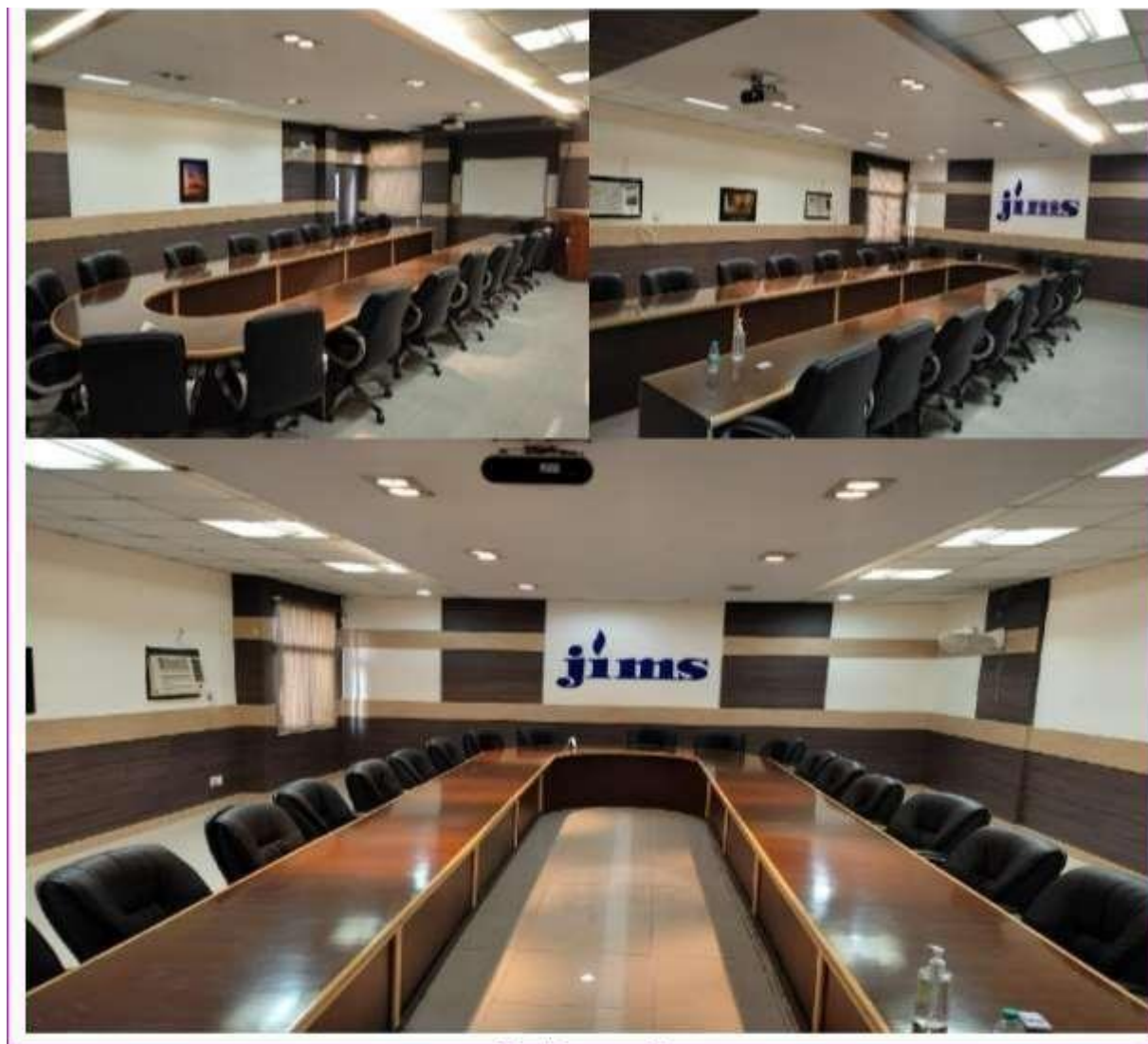


Cafeteria



Medical Room

For students divided in 12 sections for all programs, 12 classrooms and two (2) tutorial rooms as per AICTE norms are provided. In addition to this there is a plush seminar hall, Conference room and GD room fitted with all suitable amenities for conducting various curricular activities for students like LCDs, Audio and video aids.



Conference Room



Auditorium



GD PI Room



Rampway for Physically Handicapped Students

2.1 Green Audit Objectives

The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the 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 Green Audit are:

- To introduce and create awareness to the real concerns of environment and its Sustainability.
- To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use of the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requiring high cost.
- To bring out a status report on environmental compliance.

2.2 Institution integrates cross cutting issues relevant to Environment and Sustainability & Human Values into the Curriculum

Institute strongly believes in inculcation of human and social values, professional ethics, promotion of environmental conservation and sustainable development among the students through teaching, research and extra-curricular activities and cultural events organized regularly by various departments.

The institute has been working for the holistic development of the students relentlessly. Various programs or events are arranged related to Sustainability, Human Values and Ethics. Also, these issues are dealt with in detail in the classroom through regular subjects Organizational Analysis & Human Behaviour at Work, Corporate Social Responsibility and Sustainability which are intended to familiarize students with environment, sustainable development and gender sensitivity related issues. All courses at postgraduate level have a Sustainable development and Environment focus and they help students to acquire knowledge of ecological concepts, contemporary ecological challenges and responses to them. Students get familiar with global thinking on the issues of sustainability, development, global warming, pollution, biodiversity, equity and justice. Institute works with the objective of generating social awareness among the students through such subjects. It comprises various effective strategies like water harvesting, organic farming, reduction of pollution, reducing dependence on scarce energy sources etc. The current issue of environment awareness has been thoroughly addressed by the college within the subject focusing on sustainable development and conservation of ecosystems. The students are imparted knowledge about human values along with professional ethics in their relevant field or work domain. Business ethics and corporate social responsibility as a subject addresses the topic of human values, business ethics and gender equality as per the course curriculum. Our departments organize discussions and lectures on Human Values and Ethics. The college also organizes seminars on the theme of sustainability. Undoubtedly, the college lays sufficient emphasis on special arrangements to work towards the issues relevant to Environment and such related social issues.

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI
BACHELOR OF COMMERCE (B.Com Honours)**

BCOM 110 - Environmental Science and Sustainability (C)

L-4, T-0

Credits -4

Objective: The course aims to train students to comprehend the critical linkages between ecology-society-economy and the need for responsible ecological citizenship. The course will make students aware of the key challenges in the pathway to sustainable development.

Learning Outcomes:

After completion of the course, Students will be able to:

- CO 1. Demonstrate skills in organizing Projects for environmental protection and sustainability;
- CO 2. Analyze various Projects and initiatives with respect to ecosystem restoration;
- CO 3. Interpret significance of carbon footprints;
- CO 4. Describe the environmental issues and their possible repercussions on the planet in the next few decades;
- CO 5. Summarize the green strategies and policies adopted by various business entities to preserve the environment.

COURSE CONTENTS:

Unit 1: Introduction

(14 Hours)

Environmental Studies: Meaning, Nature, Scope, Importance and Limitations; Ecosystems; Biodiversity and Natural Systems; Natural Cycles and flows- material and energy; Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic Zones of India; Biodiversity patterns and global biodiversity hotspots. Salient Features: Wildlife (Protection) Act, 1972; Water (Prevention and control of pollution) Act, 1974; Forest (Conservation) Act, 1980; Air (Prevention and control of pollution) Act, 1981; Environmental Protection Act, 1986.

COURSE CONTENTS:

Unit 1: Introduction

Concept and significance of Business Ethics in Organizational contexts; Approaches and Practices governing Ethical Decision Making; Codes of Ethics; Normative and descriptive ethical theories. Ethos of Vedanta in management, Role of various agencies in ensuring ethics in corporation; Setting standards of ethical behaviour; Assessing ethical performance

Unit 2: Human Values & Business

Meaning of Human Values; Formation of Values: Socialization; Types of Values: Social Values, Aesthetic Values, Organisational Values, Spiritual Values; Value Crisis; concept of knowledge and wisdom, wisdom-based management. Concept of Karma and its kinds: Karma Yoga, Nishkam Karma, and Sakam Karma.

Unit 3: Moral Issues in Business

Implications of moral issues in different functional areas of business (finance, HR, and marketing). Whistle blowing; Marketing truth and advertising: Manipulation and coercion, Allocation of moral responsibility in advertising; Trade secrets, Corporate disclosures, Insider trading; Equal employment opportunity, Affirmative action, Preferential hiring; Consumerism; Environmental protection.

Unit 4: Corporate Social Responsibility (CSR)

Concept of CSR, Corporate Philanthropy, Strategic Planning and Corporate Social Responsibility; Relationship of CSR with Corporate Sustainability; CSR and Business Ethics, CSR and Corporate Governance; CSR provisions under the Companies Act 2013; CSR Committee; CSR Models, Codes, and Standards on CSR. ISO 26000 Social Responsibility- definition, principles, scope, benefits, certification.

Suggested Readings:

1. Fernando AC (2013), *Business Ethics*, Pearson Education
2. Balachandran V (2011), *Corporate Governance, Ethics and Social Responsibility*, PHI

3. Mandal SK (2012) *Ethics in Business and Corporate Governance*, Mc Graw Hill Education
4. Banerjee, S. B. (2007). *Corporate Social Responsibility: The Good, The Bad and The Ugly*. Cheltenham: Edward Elgar Publishing.
5. Kumar, S. (2010). *Corporate Governance*. Oxford, England: Oxford University Press.
6. Sherlekar, S. A. (2009). *Ethics in Management*. New Delhi: Himalaya Publishing House.

BCOM 206 - BUSINESS ETHICS AND CSR (C)

Objective: The course aims to imbibe and develop ethical and moral values in students and help them understand the significance of Values and Ethics in business decision making ensuring stakeholder satisfaction for all stakeholders.

Learning outcomes: After completion of this course, students will be able to:

- CO 1. Decipher morality and ethics in personal and professional behavior
- CO2. Explore values and ethics in business decision making for an organization;
- CO 3. Assess the impact of business processes on stakeholders;
- CO 4. Evaluate the social responsibility of business organization and take steps to meet them

Mapping of Course Outcomes with Program level outcomes

Following are the Program Outcomes and Program Specific Outcomes of the B.Com (H) Program

Program Outcomes for B.Com(H)

On Completion of the Program of Bachelors in Commerce, Graduates will be able to:

- PO 1. Exhibit understanding of overall business and financial environment in India
- PO 2. Demonstrate in-depth knowledge of financial operations and decision making in an organisation
- PO 3. Develop comprehensive understanding and problem solving abilities in financial services and operations
- PO 4. Develop critical thinking skills and analytical abilities to analyze business data using various techniques and tools
- PO 5. Develop effective communication, interpersonal and team skills
- PO 6. Demonstrate awareness of ethical issues and sensitivity towards social and environmental challenges

Program Specific Outcomes for B.Com (H)

On Completion of the Program of Bachelors in Commerce, Graduates will be able to:

- PSO 1. Demonstrate an understanding of technological interventions in Finance
- PSO 2. Develop skills for investments and trading in capital markets
- PSO 3. Develop understanding on Banking and Financial services in India
- PSO 4. Apply quantitative techniques and tools in Commerce
- PSO 5. Imbibe human values and sense of responsibility towards self, society and environment
- PSO 6. Undergo holistic personality development with skills for effective functioning

Unit 2: Measurement and Reporting

(14 Hours)

ISO Standard 14001: Environmental Management System; Carbon Foot printing and Ecological Handprints; Environmental Impact Analysis, Environmental Impact Assessment in India: procedure & practices. Green Tax Incentives and Rebates (to Green Recommended Projects: Students may be encouraged to attempt the following for enhanced learning and Companies). Green Reporting. National Green Tribunal: Structure, composition and functions. Environmental Accounting: Concept, Significance, and Types. Environmental Economics, KYOTO Protocol: Aim, Vision, and Functioning; Carbon Trading

Unit 3: Sustainable Development Goals (SDGs)

(14 Hours)

Sustainable Development Goals (SDGs): Meaning, Background, Transition from Millennium Development Goals (MDGs) to SDGs. Role of UNDP; SDG Integration. SDGs (1-6): No Poverty, Zero Hunger, Good Health and Well-Being, Quality Education, Gender Equality, Clean Water and Sanitation. SDGs (1-6) in India: Key indicators of performance. SDGs (7-17): Affordable and Clean Energy, Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Reduced Inequalities, Sustainable Cities and Communities, Climate Action, Life below Water, Life on Land. Peace, Justice and Strong Institutions, Partnerships for the Goals. SDGs (7-17) in India: Key indicators of performance.

Unit 4: Responsible Production and Mindful Consumption

(14 Hours)

Responsible Production and mindful consumption: concept, rationale, implications, challenges and opportunities. Global initiatives on Sustainable Development by Industry: World Business Council for Business Development. Socially Responsible Investment: Green Bonds, Carbon Credits. Socially Responsible Mutual Funds. Global Reporting Initiatives.

Suggested Readings:

1. Erach Bharucha, Environmental Studies for UGC
2. Basu, M., & Xavier, S. (2016). *Fundamentals of Environmental Studies*. Cambridge: Cambridge University Press.
3. Enger, E., & Smith, B. (2013). *Environmental Science: A Study of Interrelationships*, Publisher: McGraw Hill Higher Education.
4. Kumar, S., & Kumar, B. S. (2016). *Green Business Management*. Hyderabad: Thakur Publishing Pvt. Ltd. Mitra,
5. A. K., & Chakraborty, R. (2016). *Introduction to Environmental Studies*. Kolkata: Book Syndicate Pvt. Ltd.
6. Stokke, O. (2018). *Sustainable Development*. Abingdon: Routledge.

2.3 Extension activities in the institute and neighborhood community, sensitizing students to environmental issues for the holistic development

- **Cleanliness Drive Swatchta hi Sewa Campaign on 2nd oct 2023.**

Prayaas- The NSS and Rotaract Club of JIMS Kalkaji conducted a cleanliness drive within the locality of Nehru Place on 2nd October 2023 to mark the initiative and promote 'Swachh Bharat Abhiyaan'. Armed with brooms, trashbags, and a determination to make a difference, volunteers had worked tirelessly to clean up littered streets, parks, and public spaces. This resulted in visibly cleaner surroundings and 50 kilograms of waste was collected by the volunteers. It played a crucial role in raising awareness about the importance of cleanliness and responsible waste disposal. The local children also came around to put their contribution to clean up the localities. Through these initiatives, a sense of responsibility within the community and encouraging individuals to take ownership of their surroundings is highlighted.



(Students collecting trash at Nehru Place)

• Plantation Drive from 01-02-2024 to 29-02-2024.

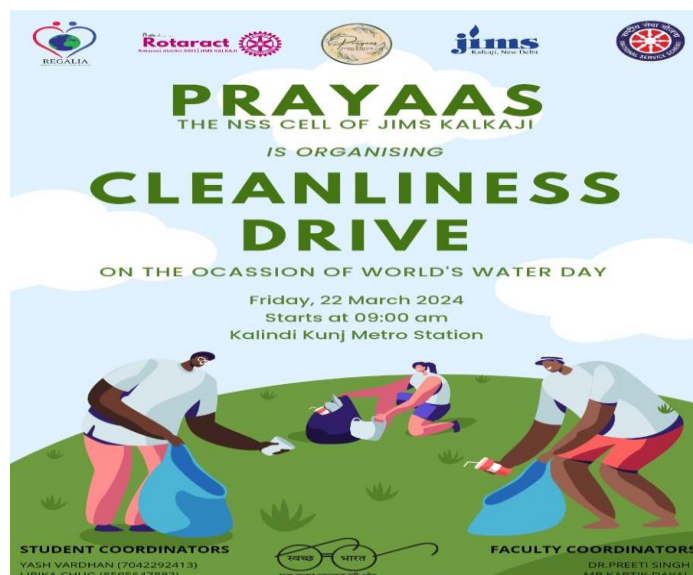
Prayaas the nss club of JIMS Kalkaji organized a 29-Day Plantation Challenge commenced on 1st February and concluded on 29 February. Participants were tasked with planting a specified number of saplings within the designated time frame. They documented their planting activities through photographs, videos, and written accounts, sharing their progress and experiences on social media.



(GLIMPSES of Students planting saplings)

• Cleanliness Drive at Yamuna Khaddar on 22.03.204

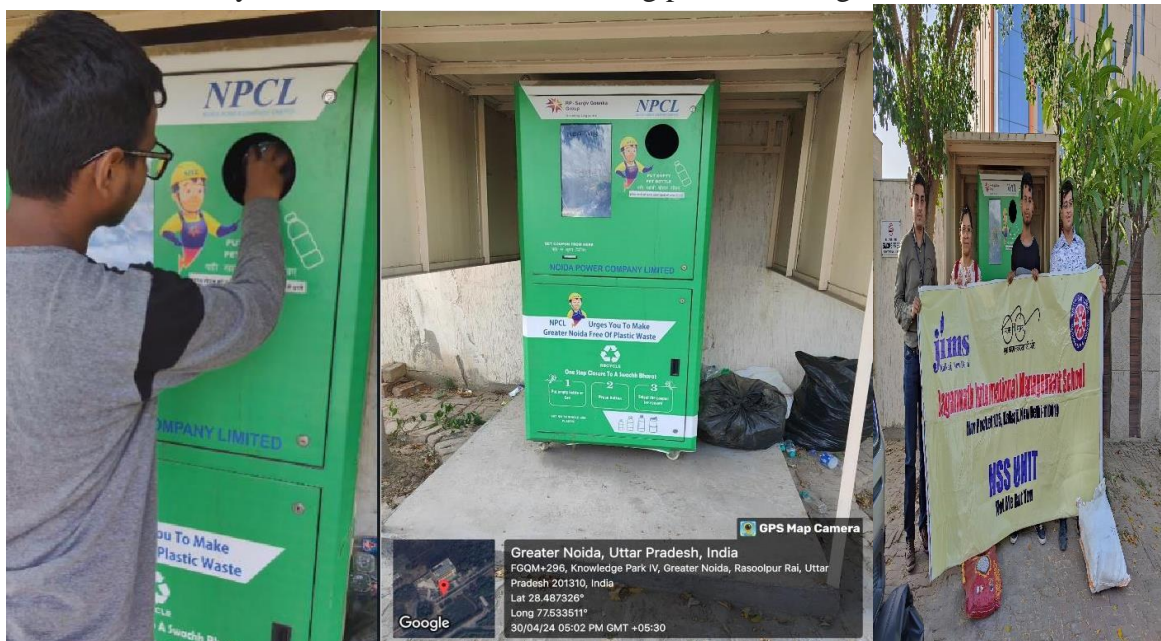
Prayaas the NSS club of JIMS Kalkaji in collaboration with Amity University organized a Cleanliness Drive in Yamuna ghats near kalindi kunj metro station on the occasion of World Water Day. Student volunteers gathered at the designated locations with cleaning supplies such as gloves, garbage bags and masks. We collected too many dry and plastic waste and puja items such as incense stick , diyas etc. too . In total we collected 15 bags of garbage from the ghat area in order to clean the and preserving the environment, promoting public health, honoring cultural heritage and preventing pollution.



- **Plastic Recycle drive at NPCL**

Prayaas - NSS and Rotaract Club of JIMS Kalkaji visited NPCL HQ, Greater Noida on April 29, 2023, recycling 200+ plastic bottles from college through the reverse vending machine (RVM). The drive raised awareness about plastic's environmental impact and promoted recycling for a "Cleaner India-Greener India" message.

This grassroots initiative not only showcases their profound environmental awareness but also underscores the efficacy of collective action in fostering positive change.



• **Say No to Plastic Poster Making Competition**

Prayaas the NSS club of JIMS Kalkaji in collaboration with Shanti Sahyog NGO organized a poster making competition named “Say No To Plastic: A Poster Making Competition” at Shanti Sahyog NGO in Tughlakabad to raise awareness about the harmful effects of plastic and promote sustainable alternatives. Student volunteers gathered at the designated location. The volunteers distributed the snacks to all the participants and also gave prizes to the winners. Participants were encouraged to create posters that conveyed strong messages about reducing plastic use and promoting environmental sustainability. The competition served as a platform for participants to express their thoughts and ideas on the detrimental

impact of plastic on our environment. Through this activity, the volunteers and participants gained a deeper understanding of the negative impacts of plastic pollution and the importance of reducing plastic usage. It provided an opportunity for participants to use art as a medium to communicate important environmental messages and the posters created during the competition helped spread awareness among the community, highlighting the collective effort required to combat plastic pollution.

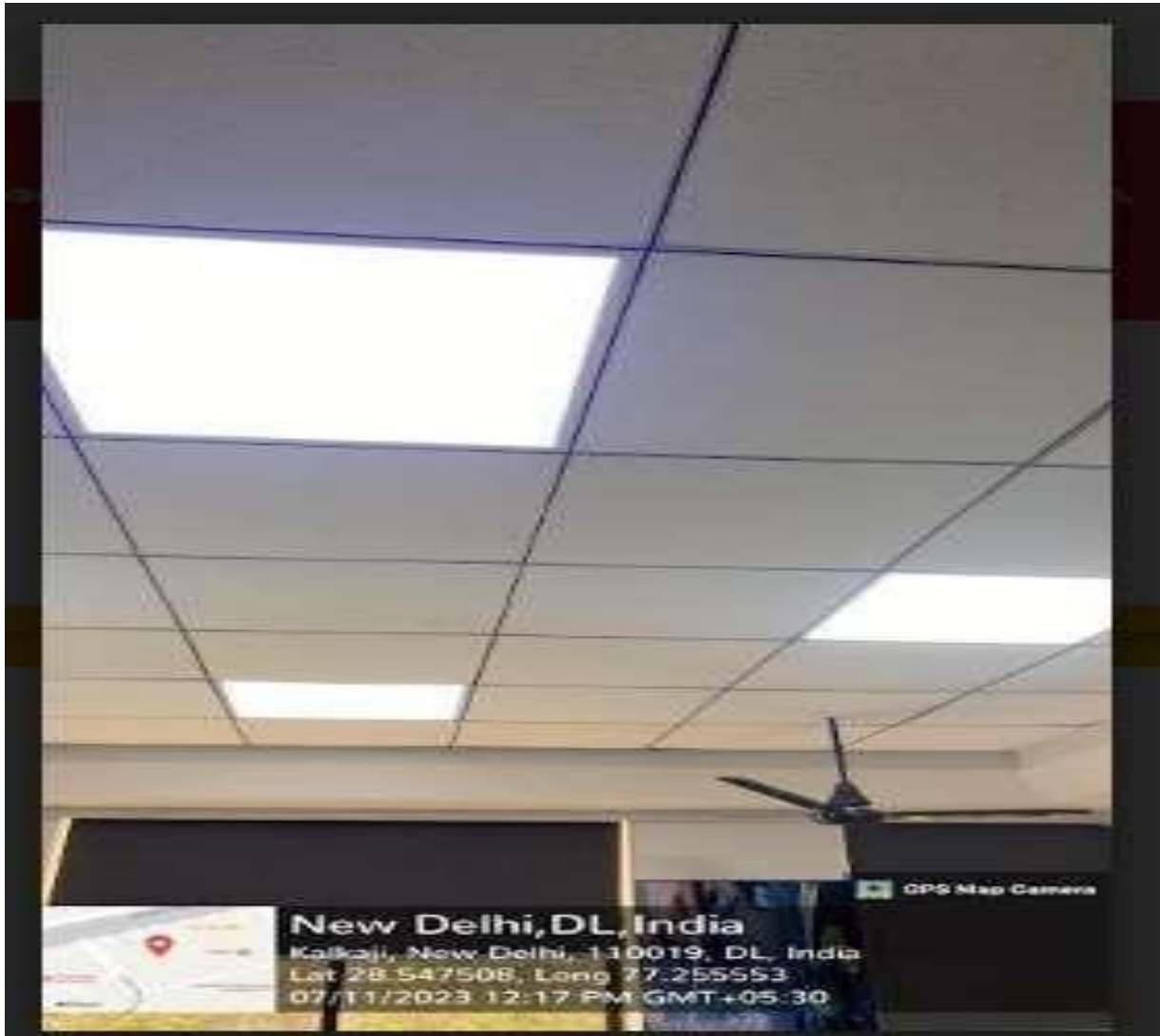


2.4 Energy Conservation

The Institution has facilities for alternate sources of energy and energy conservation measures. Solar energy and LED Bulbs/ power efficient equipment are used to conserve energy and ensure environment consciousness and sustainability among the stakeholders. After installation of Solar panels till date, the institute has generated 124273.05 units. That means we have made saving of Rs. 1056320 +Applicable Taxes.



Solar panel installed at JIMS Kalkaji



LED Lights installed at JIMS Kalkaji

2.5 Facilities in the Institution for the management of degradable and non-degradable waste

JIMS, Kalkaji has designed methods for waste management based on the strategic and sustainable principles of **3R's - Reduce, Recycle and Reuse**. The institution has taken initiatives and made efforts into reducing the waste generated by adopting eco-friendly alternatives, attempting to reuse the waste generated to the optimum utilization and recycling the waste to the maximum. Being a management college, no chemical or hazardous waste is generated in the campus. The institute aims to make the campus green, clean, hygienic and healthy for all. The strategic initiatives are:

- Organic composting of Kitchen waste.
- Composting of garden/organic waste.
- Waste water used for other utility purposes.
- Recycling of paper and other materials.
- Stopping or limiting the usage of non-biodegradable material like plastic bags
- E-Waste Recycling

2.6 Solid Waste Management

The solid waste generated at the campus. There are two bins installed in the campus for wet and dry waste. The waste items are then segregated into biodegradable and non -biodegradable waste.

Biodegradable - The biodegradable waste includes food items, vegetable and fruit peels, leaves, flowers, water, etc. Simple steps have been undertaken to manage this waste and reuse for organic purposes. Food Waste, canteen waste and garden waste is first segregated into compost bins installed in the canteen area and over a period of time are collected in the college garden area and buried under soil to be reused as manure.

Non -Biodegradable - Solid waste generated on the campus which is biodegradable in nature is then disposed of by giving it the MCD. Also, the institute has banned single use plastic to reduce the non- biodegradable waste.



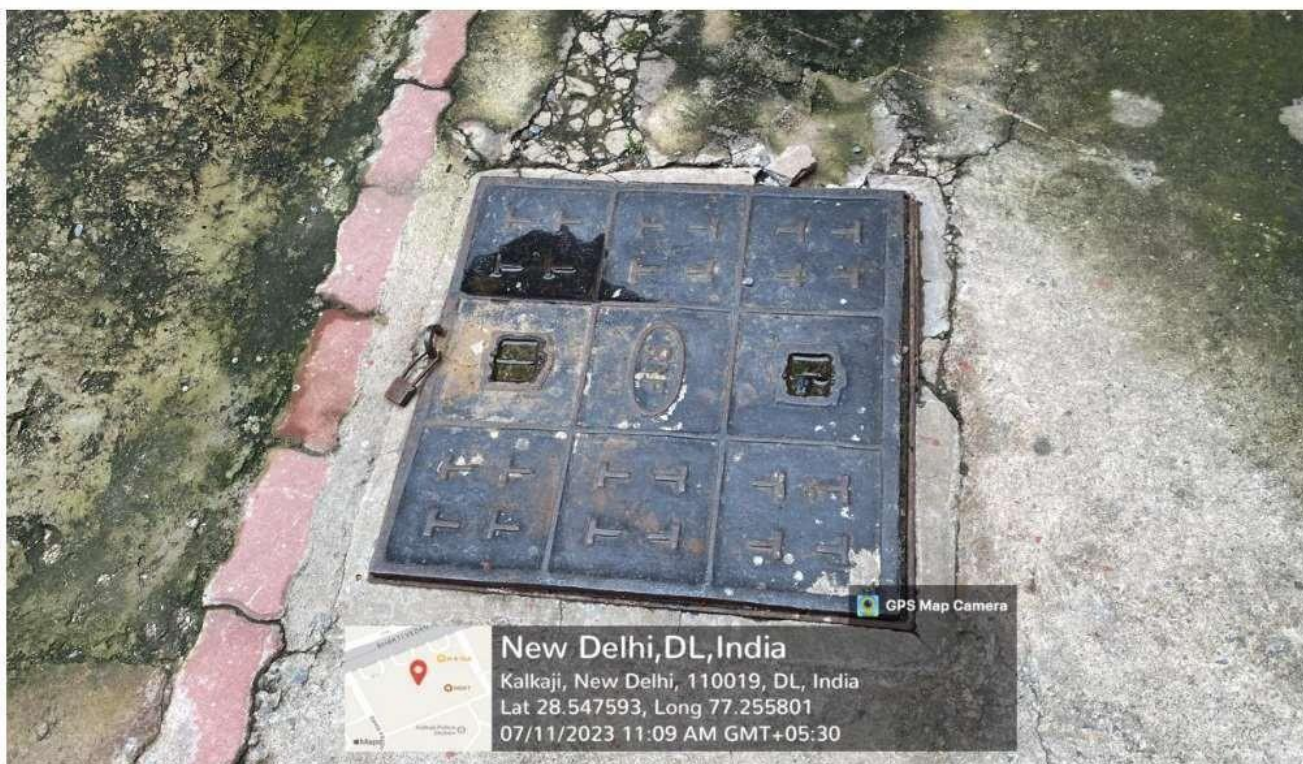
Compost Pit for dry biodegradable waste



Segregation of waste into dry waste and wet waste

2.7 Liquid Waste Management

Wastewater from RO plant is also recycled for ancillary activities around the campus like watering the plants, cleaning of the campus and kitchen cleaning purposes.



RO waste water goes into this tank from where it is reused for watering the plants, cleaning of the campus and kitchen cleaning purposes.

2.8 E Waste Management

E-waste is generated in the institute. E-waste is waste related to broken or discarded electronic items which is efficiently recycled. As improper dismantling and processing of e-waste render it perilous to human health and our ecosystem, the institute focuses on proper e-waste management. The institute has signed an MOU with e-Waste Recyclers India for e-waste management.

INDIA NON JUDICIAL	
Government of National Capital Territory of Delhi	
e-Stamp	
Certificate No.	IN-DL38771807120071T
Certificate Issued Date	30-Jan-2021 05:30 PM
Account Reference	IMPACC (IV) / dl1034403/ DLH/ DL-DLH
Unique Doc. Reference	SUBIN-DL103440370957567319100T
Purchased by	E WASTE RECYCLERS INDIA
Description of Document	Article 5 General Agreement
Property Description	Not Applicable
Consideration Price (Rs.)	0 (Zero)
First Party	E WASTE RECYCLERS INDIA
Second Party	JAGANNATH INTERNATIONAL MANAGEMENT SCHOOL KALKAJI
Stamp Duty Paid By	E WASTE RECYCLERS INDIA
Stamp Duty Amount(Rs.)	100 (One Hundred only)

Please write or type below this line.....

CONTRACT FOR E-WASTE MANAGEMENT SERVICES

BETWEEN

M/S. E-WASTE RECYCLERS INDIA
 &
 M/S
 Jagannath International Management School, Kalkaji

For E-WASTE RECYCLERS INDIA

Authorised Signatory

CONFIDENTIAL
 NOT FOR GENERAL DISTRIBUTION
 E-Waste Recyclers India ALL RIGHTS RESERVED

Statutory Alert:
 1. The authenticity of this stamp certificate should be verified at www.e-stampsonline.com or using e-Stamp Reader App of Stamp India.
 Any discrepancy in the details on this certificate and its availability on the website / mobile app renders it invalid.
 2. The duty of checking the legitimacy is on the users of the certificate.
 In case of any discrepancy please refer to the Competent Authority.

MOU with E waste recyclers India

2.9 Waste Recycling System

The biodegradable waste of the institute is segregated into dry and wet waste. The wet waste is composted using the compost bin. Once the compost bin is full, it needs to be kept closed for 15 days. By using the compost bin tap, we harvest liquid fertilizer every 3 days during those 15 days. The liquid removed is loaded with microbes and nutrients and makes an extremely effective natural fertilizer.

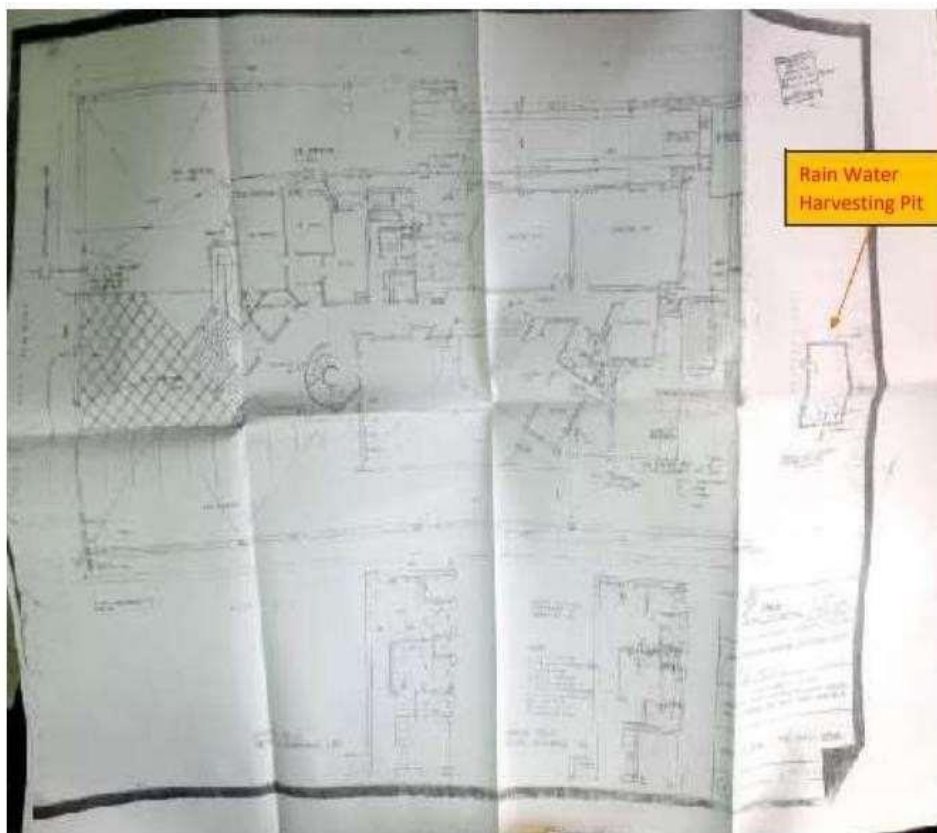
The dry waste collected along with the garden waste like dry leaves, twigs, sticks etc. is put in the compost pit created by students of Rotaract club in the garden of the campus. Earthworms and microorganisms in the soil convert the organic matter into usable compost. This compost is used to fertilize the plants in the garden.

2.10 Water conservation

The institution has the following water conservation facilities installed.

- Rain water harvesting
- Construction of tanks and bunds
- Waste water recycling

The institute takes steps to conserve natural resources like water through rain water harvesting and construction of underground tanks and bunds. RO is installed on terrace for dispensing clean drinking water. This RO releases wastewater while purifying the water to make it fit for drinking. This wastewater is collected and used in horticulture.





Rain Water Harvesting Pit



Tanks installed at JIMS Kalkaji



RO waste water goes into this tank from where it is reused for watering the plants, cleaning of the campus and kitchen cleaning purposes.

2.11 Green Campus initiatives

The institutional initiatives for greening the campus are as follows:

- Restricted entry of automobiles
- Pedestrian-friendly pathways
- Ban on the use of Plastics
- Landscaping with trees and plants

The institute has been actively taking initiatives to make the premises a green campus. Numerous activities have been undertaken to highlight the adverse effects of plastic. The institute became plastic free on World Earth Day in 2019 when a Ban on use of Plastic in Campus drive was conducted. Apart from that, various activities have been organized to promote conservation of nature like “Photography competition on Unseen Greenery”, “Reels making competition on Phasing out Single use plastic items”, “Guest lecture on world ozone day” etc. The institute does not allow student’s or visitor’s automobiles on the campus. Also, to make the campus even more greener plantation drives are conducted every semester within and outside the campus.



Restricted entry of automobiles



Ban on SUP items in campus



LANDSCAPING WITH TREES AND PLANTS

There are a number of plants and trees planted in the institute. Following is the list of the same:

- Ficus Tree 20 pcs
- Morpankhi Tree 01 pcs
- Palm hig Tree 01 pcs
- Palm Plant 06 pcs
- Sadabahar Plant 12pcs
- Rose Plant 06 pcs
- Lily Plant 04 pcs
- Money plant 03 pcs

3.1 Green Steps taken by the institute

College has taken various initiatives to promote environment related activities. It has taken green initiatives by installing a renewable energy system, rainwater harvesting system, compost bins, establishing Eco Club, promoting eco-friendly activities etc. Based on the available data, it is found that-

- a. The institute has around 30+ varieties of potted plants, shrubs and trees contributing to improved air quality in the campus.
- b. The institute provides DELNET e-library facility to the students.
- c. The institute has established Eco Club and NSS club in which students and faculties arrange different activities for promoting green activities to conserve environment.
- d. College campus has wide windows and doors in classes and faculty rooms to ensure proper ventilation.
- e. The Rotaract Club, ECO Club and NSS club organizes various programmes on regular basis viz. Cleanliness drives, pollution rallies, quiz, competition and skit related to conserving environment. Plantation drive is being conducted in association with NGO to preserve environment.
- f. College has started the process of replacing all incandescent lights with LEDs.
- g. College give green initiative to all the resource persons visiting campus
- h. College has solar panel to conserve energy.
- i. Dustbin used at every floor segregating dry and wet waste and toxic materials.

4.1 Recommendations

- 1) The institute should encourage students to use eco-friendly materials and recycle old paper/scrap for decoration purposes during college festivals.
- 2) Digital notice boards can be placed on each floor so paper waste can be reduced.
- 3) Institute can ban the usage of plastic bags in the campus.
- 4) Monitoring of indoor air quality, noise level and water quality should be monitored every 6 months.
- 5) Information on sources, impacts, and mitigation of indoor air pollution to be displayed within the campus for increasing awareness about indoor air pollution.
- 6) Air quality, water quality, noise level monitoring, and also help College to maintain records of the quality of important environmental attributes. Additional credits can be considered for students who are part of the project team.
- 7) The institute conducts safety training, fire, fighting drills and mock drills for faculties. It should be conducted for students also on regular intervals and their records should be maintained.
- 8) Every classroom and laboratory with central switch board can have a diagram linking location of a tube light, fan etc with corresponding switch. This will ensure that correct fitting is switched on/off and can save time & unnecessary operation.
- 9) The awareness regarding energy management could be improved by encouraging students to help in monitoring energy consumption and by integrating energy education into classroom learning.
- 10) Signage regarding water conservation, reduction & segregation of plastic waste, reduction in food waste, waste segregation are put up in kitchen, near drinking water facilities, washrooms to create awareness among staff and students.

Annexures

Annexure 1: List of Stakeholders Interviewed

A virtual tour of Jagannath International Management School, Kalkaji was conducted on 2 June 2022 During the visit, the College campus, College building (classrooms, laboratories, etc.), solar panels, rainwater harvesting system, green belt, RO plant area were visited.

Annexure 2: List of Plant present in the Campus

1. Hibiscus Hibiscus Rosa-Sinensis
2. Chamomile Matricaria Chamomilla
3. Holy Basil Ocimum Tenuiflorum
4. Lily Lilium
5. Serbian Bellflower Campanula Poscharskyana
6. Snake Plant Dracaena Trifasciata
7. Morpankhi Dracaena Reflexa
8. Song Of India Dracaena Reflexa
9. Murraya Murraya Paniculata
10. Bottle Palm Hyophorbe Lagenicauli

Annexure 3: Green Audit Checklist

College campus is audited with respect to Green Audit Checklist developed by the Audit Team. College building is specifically designed with broad windows and wide passages to utilize sunlight and for ventilation. College has ample number of trees in the campus. Facilities such as rainwater harvesting system, rooftop solar PV systems are provided in the campus.

Students and staff demonstrate consistent efforts in arranging environmental activities and actively participate in them.

Good Daylight the Design

Sr. No.	Design Feature	Present (YES/N O)	Remarks (If any)
1	Wide corridors open to daylight	YES	Wide corridors are there on each floor.
2	Broad doors and windows allow daylight	YES	Every room has broad doors and windows that allows daylight.
3	Building architecture which allows sunlight within buildings	YES	Building is designed in such a way that it allows sunlight within the building.
4	Presence of Skylight/ Rooflight	NO	
5	Enough natural illumination in classrooms/ seminar halls/ laboratories	YES	Every room has wide windows for natural illumination.
6	Ultraviolet (UV) filtering windows/ Use of exterior louvers or light coloured fabric or blinds for windows to control glare	NO	Blinds are used to control glare.
7	Operable/ openable windows	YES	Every room has operable windows.
8	Use of glass as facilitator of natural light	YES	Every room has wide windows for natural light.
9	Use of insulated and tinted glass to filter heat gain	YES	UV Filtering windows are present to filter heat gain.

Ventilation

Sr. No.	Design Feature		Remarks (If any)
1	Good ceiling height which allows internal air circulation	YES	Every room has good ceiling height to ensure internal air circulation in the room
2	Self-movement ventilators in the roof	NO	
3	Wide windows and doors for classrooms, laboratories, seminar halls	YES	Every room has broad doors and windows
4	Wide corridors	YES	Wide corridors are present.
5	Operable louvers	NO	
6	Exhaust fans in kitchen/ toilets	YES	Exhaust fans are present.

Water Efficiency & Wastewater Management

Sr. No.	Measures		Remarks (If any)
1	RO based water purifiers for drinking water	YES	Every floor has RO water supply through water cooler
2	Aerators to water taps	NO	
3	Automatic toilet faucets	NO	
4	Drip irrigation/ Sprinklers (for plant watering system)	NO	
5	Dual flush toilet with cistern	NO	
6	Dry mopping/ cleaning methods adopted	YES	Dry mopping is regularly done in the college
7	Sewage treatment plant for sewage recycle	NO	
8	Rainwater harvesting	YES	Rain water from the roof n ground is diverted to the underground pits and recharged through bore well

9	Regular maintenance for leakage-free plumbing system	YES	Regular checks are conducted in the college to prevent any plumbing issues
10	Use of low flow/flow control water equipment or gadget	YES	The college has installed sensor-based flush system in male washrooms and low flow flush system in female washrooms

Energy Efficiency and On-site Energy Generation Mechanism

S. No	Measures		Remarks (if any)
1	Computerized monitoring of electrical system	NO	
2	On-site energy generation (Diesel generators, LPG)	YES	Diesel generator of capacity 62 KVA is provided. LPG is used in a kitchen.
3	Use of renewable energy (Solar)	YES	A rooftop solar PV system of 30 KWH capacity is installed.
4	Regular maintenance of the electrical system	YES	On-site maintenance is done by the institute's maintenance team
5	Use of energy-efficient equipment like VFDs, maximum star-rated equipment.	YES	All ACs are with star ratings. 10% of lights are LEDs.
6	Use of energy-saving bulbs (Compact florescent light/LED lights)	YES	All computer screens are LED. Institute is replacing old lights with LEDs.
7	Awareness signage on electricity conservation.	YES	Electricity conservation signages are provided on each floor. Signage should be provided near all switch boards.

Solid Waste Management

S. No	Measure		Remarks (if any)
1	Waste segregation practices and supporting hardware for waste segregation (Dry recyclable, organic, plastic, hazardous and E waste)	YES	Dry recyclable waste, e-waste, and paper waste segregation is practised.
2	Setting up recycling / composting/ biogas generation facility	YES	Campus has a trust bin facility for composting the canteen waste.

3	Minimize use of paper through digitalization	YES	„Learning Management System’ has helped in reducing paper use.
4	Printing on both sides of paper/ Reuse of printed paper/ envelopes	YES	The use of paper both sides is practiced
5	Inventories of waste generation and records of waste disposal	NO	
6	Segregation of dry and wet waste	YES	Blue and green coloured bins are installed for segregation.

Green Program

Sr. No.	Green program		Remarks (If any)
1	Upcycling of waste. Recycling beyond books i.e., paper, aluminum, plastic, e-waste	YES	E-waste is collected and sold to an authorized vendor for recycling
2	Creation of “Green Team” in the institution/library	YES	The institute has “Green Team”.
3	Awareness programs on the environment, energy management & safety (external sessions and academic courses)	YES	The college hosts guest lectures and sessions on energy management, environment like Say No to Plastic Campaign, World Ozone Day- Poster Making Competition etc. In BBA, Environmental Studies is taught as a subject.
4	Outreach, activities, green programs (Tree plantation, waste segregation, plastic waste collection, cleaning, etc.) records/ photos of programs	YES	Different Outreach activities are conducted like Plantation Drive at Sanjay Van in collaboration with Delhi Archeological Department, Sanjay Van, New Delhi, Best Out of Waste etc.
5	Presence of system/ methodology available for implementation of green initiatives and green projects (long term system-based continuity and not an isolated/ standalone activity)	NO	

Members of the Committee: -

- Dr Preeti Singh
- Mr Kartik Dayal
- Ms Dolly

Prof. Satish Chandra Garkoti, School
of Environmental Sciences,
Jawaharlal Nehru University

External Auditor



Dr. Anuj Verma

Director



COMMITTEE FOR
ENVIRONMENT, ENERGY AND GREEN AUDIT

CERTIFICATE Of Recognition

The Committee for Environment, Energy and Green Audit is pleased to declare that
JAGANNATH INTERNATIONAL MANAGEMENT SCHOOL , KALKAJI
is accessed on various parameters related to
Environment, Energy and Green Initiatives taken by college during 2022-23

A handwritten signature in black ink, appearing to be "Dr. Anuj Verma".

Dr Anuj Verma
Director, JIMS, KALKAJI

A handwritten signature in black ink, appearing to be "Prof. Satish Chandra Garkoti".

Prof. Satish Chandra Garkoti
External Auditor