

Jagannath International Management School

Vasant Kunj, New Delhi-110070

(Affiliated to Guru Gobind Singh Indraprastha University, New Delhi)

Recognized u/s 2(f) by UGC & Accredited with 'A' Grade by NAAC

Participant of UNGC & UNPRME, New York

ISO 9001:2015 Quality Certified



GREEN AUDIT REPORT

For the academic year

2020-2021

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1. Introduction

Jagannath International Management School, Vasant Kunj, was established in 2003 as an affiliated college of Guru Gobind Singh Indraprastha University, Delhi. The institute has made rapid strides in the area of imparting quality higher education at the undergraduate level to emerge as one of the topmost colleges of the university. The college has been awarded the highest grade not only by the Joint Assessment Committee of the University and the Govt. of NCT of Delhi but also by the University Academic Audit Committee, successively for the last over 5 years. Besides, the State Fee Regulatory Committee of the Govt. of NCT of Delhi has also awarded the institute A+, the highest grade, for its quality systems. To cap it all, the institute has also been awarded an A Grade by the National Assessment and Accreditation Council, Bengaluru.

As a part of its efforts to keep innovating and retaining its competitive edge over other educational institutions, the Institute has recently established the Institution Innovation Council, under the auspices of the Innovation Cell of the Ministry of Human Resource Development. The institute has been awarded a 4-Star Ranking for its Institution Innovation Council achievements.

Complementing this effort, the institute has also become a Participant Signatory to the Ten Principles of UN Global Compact (UNGC) and also a Participant in the UNGC's UN Principles of Responsible Management Education (PRME) initiative to achieve the 17 Sustainable Development Goals. As a part of its community responsibility, the institute has been working with a number of governmental and non-governmental departments and agencies for the uplift of the community. For the popularization of Mathematics in the neighborhood community, JIMS Community Radio has been producing and broadcasting Radio Mathematics programmes under the Radio Mathematics Project of the Dept. of Science & Technology, Ministry of Science & Technology, Govt. of India. Recently, JIMS made history when it tied with Harvard Business School Online to offer niche programmes in Management to JIMS students on an exclusive basis.

The College comprises 3 departments offering 3 undergraduate programmes. Departments are listed below:

Department of Information Technology

Programme Offered - Bachelor of Computer Applications

Department of Information Technology was established in 2006 and Bachelor of Computer Application (BCA) a three-year degree programme is offered by the Department. The course is aimed to sync with fast-moving developments in the field of information technology. It caters to provide IT Companies with the required expertise. It aims to make the students prepared for various areas of computer applications including the latest developments in the IT industry. The programme is aimed at the overall development of the students to make them ready for higher education such as MCA and for better opportunities in the industry. The department has earned One university gold medal and two exemplary performers. The Department runs the BCA programme in two shifts.

Department of Management

Programme Offered - Bachelor of Business Administration

Department of Management was established in 2006 and Bachelor of Business Administration (BBA) a three-year degree programme is offered by the Department. It aims to make the students develop core competency in key areas of business management. It covers various aspects of the business to communicate, analyze situations, presentations, decision-making, and develop a holistic view of the different areas of business. BBA programme offers and provides knowledge and training in leadership and management to prepare students for managerial entrepreneurship and roles. The department has earned One university gold medal. The Department runs the BBA programme in two shifts.

Department of Media and Communication Studies

Programme Offered - B.A in Journalism and Mass Communication

Department of Media and Communication Studies was established in 2003 and BA(Journalism & Mass Communication) (BA(JMC)) a three-year degree programme is offered by the Department. The programme was earlier titled Bachelor of Journalism (Mass Communication). But after the revision of the syllabus in 2016, the nomenclature of the degree was changed to the present one. The Department has the distinction of having produced the maximum number of Gold Medalists 06 in number since its inception, among all the GGSIP University institutes. The Department runs a Community Radio Station too at 90.4MHz frequency. The Department runs BA(JMC) programme in two shifts.

1.1 Environmental Setting

The college is spread over 2024 square meters which includes campus building, canteen, stationery, and green area across the campus. The college is easily accessible by road and metro; the nearest metro station to the college is the Chattarpur metro station which is 3.9 km away and Vasant Vihar which is 4.7 km away. The Indira Gandhi International Airport is 7.3 km away from the college.

Although the campus is located in a residential area of the south west Delhi, the presence of green belt around the campus including gardens, lawns have considerably reduced noise pollution in the campus. The college building area has an academic building, non-academic block, and green operations/ infrastructures including roof-top solar PV system and Rainwater Harvesting System (RWH).



JIMS, VK College Campus Location

1.2 Basis of Green Audit and Stakeholders Consultation

Green Audit enables to:

- Enhance awareness levels on green environment management and sustainability.
- Prepare an environment management plan and promote sustainability through efficient resource management resulting in cost reduction.
- Benchmarking the process in terms of resource utilization.
- Develop an outreach program in environmental management and Sustainability for the students.

The Audit team conducted a Green Audit of Jagannath International Management School, Vasant Kunj, through desktop review of findings of internal green & environmental audits conducted by the college, review of documents/ records, and virtual tour of the College and telephonic interviews of faculty, non-teaching staff and students. Prior to the audit, questionnaires and checklists were prepared. Virtual tour of the campus included College building and infrastructure facilities such as solar PV system, Rainwater Harvesting System (RWH), gardens, etc. The list of stakeholders interviewed is presented in Annexure below.

Green Audit Report addresses green initiatives taken/ under implementation by management, the outreach of the College, suggestions & recommendations to improve the overall environmental sustainability of the campus.

1.3 Campus Information

The College campus consists of two buildings, one is academic and another is a non-academic block. The college building has classrooms, well-equipped laboratories, a library, and an auditorium. College Sports room has indoor games facilities. The area details of the College building are presented in **Table 1**.

Table 1: Facilities Details

Floor	Facilities
Ground floor	2 Computer laboratories, common faculty room, Accounts room, Reception, administrative office, HOD's room, Chairman room, Director room, Registrar room, server room, conference room, Director's washroom, Chairman washroom, Male / Female/staff washrooms New Block- Canteen
First floor	Common faculty room, faculty room, IQAC room, 03 classrooms, Library, Male / Female washrooms New Block- Common faculty room and Male / Female washrooms
Second floor	Common faculty room, 2 faculty rooms, 05 classrooms, 1 Computer laboratory, Male / Female washrooms New Block- Girls common room, Male / Female washrooms
Third floor	Common faculty room, faculty room, 04 classrooms, 1 Computer laboratory, Radio station, Male / Female washrooms New Block- Boys Common room, Male / Female washrooms
Terrace	Solar Panels / RO plant
Basement	Mass comm. Lab, Editing lab, PJ lab, medical room, storeroom, Auditorium, panel room, pump room

2. Green Audit Findings

For Green Audit following major areas (including their sub-sections) were covered and compliance/ initiatives under these areas were verified/ validated,

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Management
- f) On-site Energy Generation
- g) Solid Waste Management
- h) Universal Access and Efficient Operation and Maintenance of Building
- i) Transportation
- j) Green Belt
- k) Green Programs (Green initiatives)

2.1 Good Daylight Design and Ventilation

- a) Classrooms, laboratories, staff rooms, library, etc. have high ceilings, wide doors, and large windows for Daylight and Ventilation.
- b) Building is designed in such a way that corridors and classrooms receive ample amount of sunlight. Curtains are provided for laboratory windows, staff rooms, and classrooms to avoid glare. There is Natural light in the classroom.
- c) Ventilation in classrooms is facilitated by windows and fans. Cross ventilation is facilitated due to large windows on both sides of some classrooms. Air conditioners are used in offices, computer laboratories, and computer server rooms.
- d) Exhaust fans are provided in washrooms, kitchen, and laboratories for ventilation.

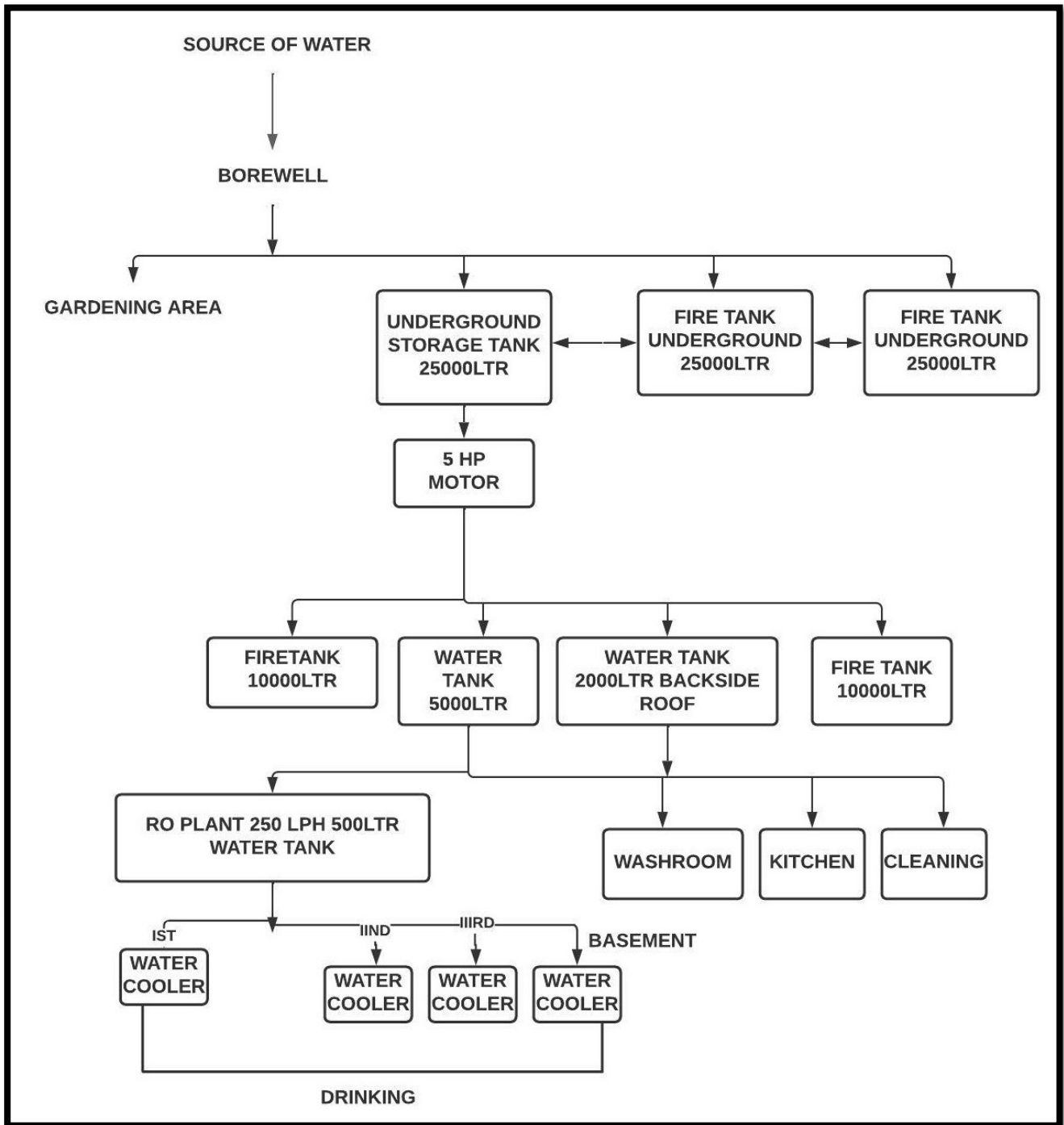


Classroom with good daylight



Ventilation and good daylight in staircase and computer lab.

2.2 Water Efficiency



f) Dry and wet mopping is practiced for floor cleaning. Floors are mopped once a day. The college has appointed a third-party contractor, Shanti Enterprises for cleaning activities.

g) As informed by College's water management team, tap water leakage is immediately attended to by the maintenance department.



RO system



Water Cooler

2.3 Wastewater Management

- a) Washing, cleaning, toilet flushing, canteen kitchens, are the main sources of wastewater. The College building has a total of 37 washrooms in the campus.
- b) The water except the sanitary waste is sourced to the underground pits and is reused.
- c) Currently, sanitary wastewater generated is sent to the municipal sewer line.

2.4. Indoor Air Quality

Indoor air quality (IAQ) pertains to the air quality inside and around buildings and structures, particularly as it relates to occupant health and comfort. Indoor air contaminants have the following health effects:

- The eyes, nose, and throat are irritated.
- Headaches, dizziness, and exhaustion are common side effects.
- Heart disease and cancer are all examples of chronic obstructive pulmonary disease.

Elements that cause harm to the human body are as follows:

- Radon: is a proven human carcinogen and the top cause of lung cancer in the United States.
- Carbon monoxide is poisonous, and short-term exposure to high levels of carbon monoxide in enclosed spaces can be fatal.
- Legionnaires' illness, a kind of pneumonia caused by exposure to the Legionella bacteria, has been linked to buildings with poorly maintained air conditioning or heating systems in six cases.
- Many indoor air pollutants—dust mites, mildew, pet dander, ambient cigarette smoke, cockroach allergens, particle matter, and others—are "asthma triggers," which means that some asthmatics may develop asthma attacks as a result of exposure.

The steps taken by the college to maintain indoor air quality: -

1. Green belts have been placed in the campus area.
2. The college is located near a widely spread green environment and hence, the trees provide good wind during the summers and there is proper ventilation throughout the day.

3. There are exhausts fans placed around in the washrooms, canteen and in rooms for ventilation.
4. Cleaning the classrooms regularly and keeping everything tidy is very important in maintaining healthy indoor air and hence, the college is very strict when it comes to hygiene and sanitation in classrooms.
5. Maintenance probably isn't the highest priority in most colleges. But small problems can have big impacts – especially to everyone's health so, there is proper repair and maintenance of damaged furniture, dusty vents, damaged paint, doors and windows, unexplained odors, and stains on the walls or ceiling.
6. The college has a strict no-smoking policy in and around the campus. It affects not just the environment but also the health of the students as well as staff.

2.5 Energy Efficiency Electricity:

a) For the whole campus there is a common electricity meter. Electricity is supplied by Bombay Suburban Electric Supply (BSES) Rajdhani Power Limited. The latest Electricity Bills from August 2019- to July 2021 are available for review. The average electric consumption for the year August 20-July 21) is 11,640.75 KW The areas where the electricity is consumed are:

S. No	-Particulars	Details
1	Tube Lights & LEDs	360 (328 Tube Lights+ 32 LEDs)
2	Air Conditioners	72 (33 Split AC + 37 Window AC + 2 Tower AC)
3	Fans (ceiling fans & wall fans)	158 (147 Ceiling Fan + 11 Wall Fans)
4	Computers (desktops & laptops)	308 (256 Desktops + 52 Laptops)
5	LCD Projectors	18
6	Water Purifiers	4
7	RO system of 250 LHP	01

b) Institute has installed Conventional tube lights, LEDs & fans in the Classrooms, Common Areas, Canteen, Library, Faculty Rooms, and laboratories. For efficient energy consumption and to save the electric expense, College has initiated the process of replacing incandescent bulbs and tube lights with LEDs.

- c) Institute has installed 04 LED Flood Lights of 50W around the campus.
- d) In total institute has 72 air conditioners with two/ three-star ratings (Standards set by Bureau of Energy Efficiency (BEE)].
- e) For the smooth conduct of the classes an Uninterruptible Power Supply (UPS) system is installed in computer laboratories and faculty room for computers and servers. The UPS system is typically used to protect hardware viz. computers, data centers, telecommunication equipment or other electrical equipment when an unexpected power disruption could cause serious work disruption or data loss.
- f) All computers have LED screens; Students are encouraged to shut down the computer systems after use. Labs in charge are also deputed for the same.
- g) In some places there are common switches for tube lights & fans that can lead to wastage of electricity. To avoid this wastage, it is recommended to have separate switches.
- h) Students, staff, and faculty members have been sensitizing to switch off the lights, fan, AC, and computers when not in use. For these instructions regarding switching off the electrical appliance were seen in Computer lab and notice boards.

2.6 On-Site Energy Generation (Usage of LPG/ Natural Gas)

- a) Both Commercial LPG cylinders are used mainly in the canteen kitchen for cooking. 1 cylinder of 19 kg generates 881.6 MJ (Mega Joules) of energy.
- b) Storage facility for LPG cylinder is located on the ground floor near the canteen. All the LPG gas cylinders are kept in a vertical position with access control
- c) Campus has a diesel generator (DG) of capacity 62 KVA. The main source of electricity is supplied from BSES. However, in case of emergency and power cut, DG set is used. To maintain the level of emissions timely service of the DG set is undertaken.
- d) On grid Rooftop Solar PV System of 30 KWH capacity has been installed in June 2018 by Success Impex (P) Limited. The regular cleaning of the solar panel is done by the college' maintenance team. The system is maintained by Success Impex (P) Limited. Solar panels are

installed on the terrace of the institute's building. The solar facility of the institute exports an average of 2665.10 units per month to the BSES.



Rooftop Solar PV System

2.7 Solid Waste Management

There are three main categories of Solid waste generated from campus. That includes mainly paper waste, wet (food/ organic) waste and E-waste.

a) Blue and Green covered dustbins are placed in the institute premises. Waste bins are provided on each floor, in each classroom, in staff rooms, Computer labs, washrooms, kitchen, and in the campus area.

b) On average 8-10kg of bio-degradable waste is generated in the campus which mainly includes horticultural waste. The quantity of this horticulture waste depends on the season and differs as per the seasonal variation e.g., around 15-20 kg of horticulture waste is generated daily in February- March due to leaf fall.

d) As the institute does not have a residential facility, the quantity of wet (food/ organic) waste generated in the premises is less. The main source of biodegradable wet waste is the canteen. Institute has initiated the process of installing a composting unit of 20 kg capacity for the treatment of canteen waste. For these 2 trust bins of 10kg, each is used to convert the wet waste into manure, which is later used in plants.

e) In other areas like classrooms, labs, faculty room, etc generally paper waste and plastic waste is generated.

f) Segregation of wet and dry waste is practiced within the campus by the vendor who has been given the contact of waste disposal.



Trustbins for decomposing Wet Waste.



Dustbins for segregation the Wet and Dry Waste

A) Paper Waste Management

At JIMS one of the main categories of solid waste is waste paper. Since paper wastage has a very strong ecological effect, the institute is taking all necessary steps to reduce this waste by minimizing paper usage.

- a) To avoid the wastage of paper both sides of the paper are used for printing and photocopying. In fact, digital scanning is used where ever possible.
- b) Institute has a library with around 12156 books; 74 journals, 27 magazines, and 14 major newspapers. The library is automated using LIBMAN software, version 7.1, which is partially automated. The library is a member of the INFLIBNET N-List consortium and it provides access to 164309+ e-books and 6150 e-journals. The library is also a member of DELNET, through which we have computer systems that can be accessed by students and faculty members.
- c) All the internal communication (notices, circulars, interdepartmental communication) is done through emails/ what's app. For efficient management, the institute has an ERP where time table,

attendance, exam results, weekly & monthly reports, Faculty and student feedback, leave records, etc are digitally recorded and maintained.

d) All the interactions with students and their parents are digitally done by using social media platforms like What's app, Zoom, etc.

e) Student assignments are all digitally made and collected.

B) E-Waste Management

E-waste is mainly included old and discarded computer monitors, Printed Circuit Boards (PCBs), televisions, etc.

a) Institute has digitized all the functions to a great extent. This includes classrooms, library, LMS for academic work, etc.

b) Institute has 308 computers and laptops, 18 LCD projectors, 72 AC in working condition.

c) E-waste is collected & stored in a college campus and sold to an authorized vendor for recycling/ disposal.

C) Plastic Waste

a) Institute follows the guidelines related to the use of plastic. Single-use plastic e.g., carry-bags, glasses, spoons, etc. are avoided on the campus. Institute also organizes students and faculty sensitization programs for the avoidance of single-use plastic.

b) As per the College guidelines, Canteen Contractor is prohibited to use plastic cutlery, instead, paper plates and wooden spoons are used.

2.8 Universal Access and Efficient Operation and maintenance of Building

a) The campus is built in such a location that is easily accessible via metro, cars, and local cabs and bus services.

b) The architecture of the building is such that a student doesn't have to be fatigued while reaching the classes and everything is within reach.

c) The college has a lift which makes accessibility of movement to different floors more convenient. The access of usage of lift is permitted to physically disabled students.

- d) Highly ventilated classrooms and labs with spacious seats, wide windows and allow safe evacuation during an emergency.
- e) The staircases are wide, properly measured, and connected with Handrails.
- f) Staircases also have wide windows, which allows ventilation as well as safe evacuation during emergency
- g) Cafeterias, student areas, student unions, and labs. These high-traffic areas need the most attention, and require ongoing safety, cleaning, and maintenance in order to run smoothly and safely.
- h) Installation of smoke alarms, arrangement of fire extinguishers and sand buckets for fire emergencies. For that matter, the college has clearly visible signs and boards which capture quick attention so that students do not panic while finding emergency exits.
- i) First Aid boxes are maintained at the reception of the college.



Fire extinguisher on every floor of the college



Staircases are wide with windows and Handrails.



Lift for ease in movement



Exhaust Fan in Washrooms



Fire extinguisher Refilling and Expiry Date

2.9 Transportation

The biggest challenge for many educational institutes is in the transportation area viz, how to get its staff members and students on the campus efficiently and inexpensively. The location of the College is quite enviable with a metro station and bus service in close vicinity. College management encourages students and staff to use the metro or public transport system to reduce

carbon emissions. There are 2 metro stations, Vasant Vihar on Magenta Line (3 Kms away) and Chattarpur Metro Station on Yellow Line (4 Kms) in close vicinity. Most of the staff pool cars and few staff members travel by private vehicles.

2.10 Green Belt

The college has around 30 varieties of plants & trees. Plantation improves aesthetics and helps as a buffer in reducing the noise level, maintaining the temperature of the area. The list of plants present on the campus is attached in the annexure. College has indoor plants in the building. Organic fertilizers and pesticides are used for plants.

As per the audit conducted by the internal team, large trees are Neem Tree (*Azadirachta indica*) and Arjuna Tree (*Terminalia arjuna*). The medicinal plants present on the campus are Hibiscus (*Hibiscus rosa-Sinensis*), Holy Basil (*Ocimum tenuiflorum*), Madagascar periwinkle (*Catharanthus roseus*), etc.



Green Belt, JIMS Vasant Kunj



Green Belt, JIMS Vasant Kunj

2.11 Green Initiatives

The globe is confronting difficulties such as ozone depletion, climate change, water scarcity, and sustainable resource management as a result of a lack of environmental and sustainability considerations. We believe that the environment is no longer a secondary issue, but a priority in the lives of all communities. We want our students to be able to participate in meaningful environmental activities and projects and to participate and influence nearby communities. We hope that empowering today's students will create a more environmentally friendly tomorrow for tomorrow.

For the past many years, the college has displayed a sustained dedication to nature and the environment. The 'Eco Club' at the college provides a diverse range of environmental and natural activities and platforms to raise awareness and demonstrate the relationship with nature. The college's National Service Scheme (NSS) and Rotract Club works on environmental, rural development, education, environmental awareness, and healthcare programmes, among other things. Eco Club/NSS/Rotract organises various events like cleanliness drives, tree plantation, lectures, and workshops to raise awareness and sensitivity among students and faculty.

Every year, the college hosts guest lectures on environmental protection, biodiversity, and other topics. The list of all the environment-related activities are as follows:

Date	Organised By/ For	Activity Details
Data Collection Year For Assesment (2020-2021)		
15- November- 2020	Rotaract Club Of Physiotherapy Scholars	Field Visit To Home And Distributed Diwali Gifts,Attended By 100 Students
1-May-2021	Rotaract Club Of Pcti	Field Visist To Home,Attended By 86 Students
17-June- 2021	Eco Club	Organised A Session On Awareness On Noise Pollution "Noise Pollution Quiz Competition",Attended By 200.
6-July-2021	Eco Club	One Day Webinar On"Wetland Awareness".
27-July-2021	Delhi Archeological Department, Sanjay Van, New Delhi	Field Visit To Sanjay Van,Attended By 95 Students
Data Collection Year For Assesment (2019-2020)		
14- September- 2019	Rotaract Club Of Delhi Imperial	Field Visit To Sultangari Archeological Park ,Attended By 83 Students
18-October- 2019	Rotaract Club Of Delhi Imperial	Field Visit To College Campus For Swachhta Hi Sewa attended By 82 Students.
21-October- 2019	Rotaract Club, Jims Vasant Kunj	Field Visit At Andrews Ganj Delhi For Diwali Gifts In Slums
21st – 24- January - 2020	MHRD, Govt Of India	Field Visit Multiple Places At Ghitorni, Kusum Pur, Malik Pur Kohli Alias Rang Puri, Vasant Vihar And Rajokri. Project "UNNAT " For Griminess, Unhygienic And Insanitary Conditions,Attended By 79 Students
10th – 12th- July-2020	Rotaract Club Of Maharaja Agrasen	Project "PRABHAV" For Tree Plantation Drive And Organised For Encouraging The Faculties And Students To Plant Trees In The Backyard Of The College.
18-July-2020	Rotaract Club Of Gl Bajaj	One Day Educational Programme On Banning The Use Of Single-Use Plastics And Recycling Of Waste Paper
Data Collection Year For Assesment (2018-2019)		
5-October- 2018	Rotract Club, Jims Vk	Students And Faculties Participated In Cleanliness Campaign In The College And Nearby Places Under “Swachhta Hi Sewa” Abhiyan

27-October-2018	Dda Sanjay Van	In The "Plantaion Drive" 600 Samplings Of Fruit And Medicinal Trees Were Planted At Sanjay Van.
5-November-2018	Rotract Club, Jims Vk	Say No To Crackers This Diwali Campaign
12-April-2019	Rotary Club Of Delhi Imperial And The South Delhi Municipal Corporation (Sdmc)	To Promote 3r(Reduce, Reuse,Recycle) By Team Sdmc Member For Waste Management Programme At Jims Camps.
Data Collection Year For Assesment (2017-2018)		
5-October-2017	Rotract Club Of Jims Vasant Kunj	Swachh Bharat Abhiyan
17-October-2017	Rotract Club Of Jims Vasant Kunj	One Day Awareness Program On "Say No To Crackers This Diwali" Campaign
28-October-2017	Dda Sanjay Van And Rotract Club Of Jims Vasant Kunj	Field Visit To Sanjay Van.
Data Collection Year For Assesment (2016-2017)		
6-October-2016	Rotaract Club, Jims Vasant Kunj	Students And Faculties Participated In Cleanliness Campaign In The College And Nearby Places Under "Swachhta Abhiyan", Attended By 183 Students.
21-October-2016	Jims Eco Club, Jims Vasant Kunj	One Day Educational Programme On "Say No To Crackers This Diwali" Campaign
24-March-2017	Rotaract Club, Jims Vasant Kunj	One Day Awareness Program On "Earth Hour Campaign"

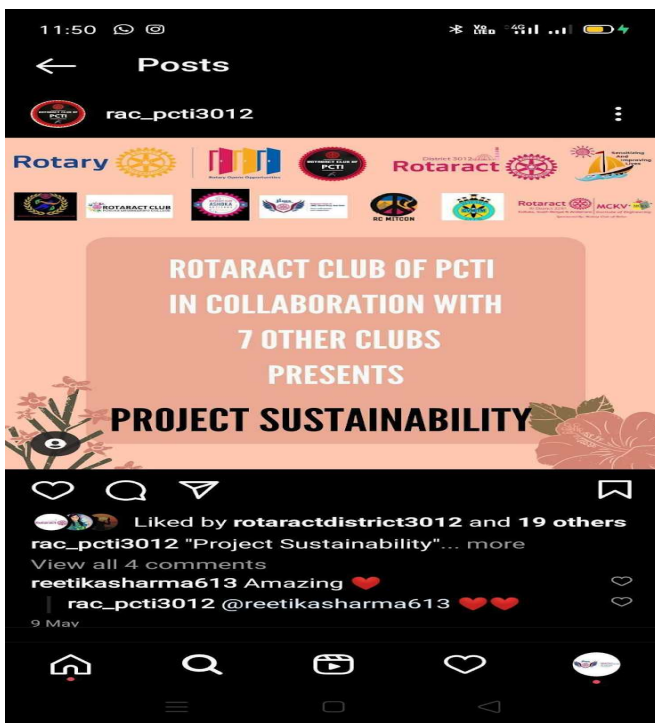
GLIMPSES OF EVENTS



Swachhta Abhiyan



Plantation Drive



Poster of the event



Student Promoting the use of paper bag

3.Green Steps taken by the institute

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

- a. Building is specifically designed with wide windows and doors, so as to ensure ventilation.
- b. Institute has installed rooftop solar panels.
- c. The institute has around 30+ varieties of potted plants, shrubs and trees that are habitat for many birds.
- d. The institute provides DELNET e-library facility to the students.
- e. The institute has established Eco Club and NSS club in which students and faculties arrange different activities for promoting green activities.
- f. There are many campaigns that Rotaract Club, ECO Club and NSS run on regular basis to create awareness in its students and society towards environmental issues like Environmental Cleanliness, Climatic Change etc. For instance, The Rotaract Club, JIMS VK organized one day awareness program on “ Earth Hour Campaign”.
- g. The Eco Club, JIMS Vasant Kunj collaborated with Childrenwise NGO for Best of Waste initiative. In the session, club members gathered the waste or discarded stuff and created utility products that can be used by the needy people.
- h. The Eco Club organizes Campaign Drive for spreading awareness regarding safe Diwali and green Diwali every year. In 2021, the club organized a Session on Green Diwali with environmental activist, Sawan Kanojia.
- i. College has started the process of replacing all incandescent lights with LEDs.

4. Recommendations

- 1) The institute should encourage students to use eco-friendly materials and recycle old paper/scrap for decoration purposes during college festivals.
- 2) E-waste is one of the main environmental problems caused by the consumption of dynamics. For this concern, the institute should conduct more programs to sensitize the students, faculty, and staff for proper disposal of e-waste.
- 3) College should implement vermicomposting unit for the treatment of horticulture waste generated on the campus
- 4) Digital notice boards can be placed on each floor so paper waste can be reduced.

- 5) Though the institute is following the government's guidelines regarding the use of single-use plastic there exists a need of prohibiting the same in the institute.
- 6) It is recommended that indoor air quality, noise levels, and water quality be monitored once in 6 months, and records be maintained as per IS: 10500.
- 7) Information on sources, impacts, and mitigation of indoor air pollution to be displayed within the campus for increasing awareness about indoor air pollution.
- 8) 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.
- 9) 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.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) Institute is practicing the segregation of waste into dry and wet at the vendor level. To ease the process ,green and blue dustbins should be placed on each floor of the college.
- 14) College should educate students and staff to increase recycling education on campus.

Annexures



Annexure 1: List of Stakeholders Interviewed

Stakeholders interviewed during the audit

A virtual tour of Jagannath International Management School, Vasant Kunj was conducted on 14.07.2021(Wednesday). During the visit, the College campus, College building (classrooms, laboratories, etc.), solar panels, rainwater harvesting system, green belt, RO plant area were visited. Following stakeholders were interviewed.







S.No.	Name	Designation	Date
1	Dr. Anu Bhardwaj	Assistant Professor, Program Coordinator of BBA	Overall the audit
2	Ms. Pooja Madaan	Assistant Professor	Overall the audit
3	Dr. Shruti Bhuttani	Assistant Professor	14.07.2021
4	Ms. Anshu Punshi	Assistant Professor	14.07.2021
5	Ms. Sonia Gandhi	Assistant Professor	14.07.2021
6	Ms. Garima Saini	Assistant Professor	14.07.2021
7	Dr. Ashok Sharma	HOD-Admin	14.07.2021
8	Mr. Ajay Kumar Pandey	Staff	14.07.2021
9	Mr. Raman Mandal	Staff	14.07.2021
10	Mr. Sachin Kumar	Staff	14.07.2021
11	Naman Gupta	Staff	14.07.2021
12	Tanish Chawla	Staff	14.07.2021
13	Yash Gupta	Staff	14.07.2021
14	Dhruv Bhutani	Staff	14.07.2021



Annexure 2: List of Plant present in the Campus




S.No.	Common Name	Botanical Name	Picture
1	Hibiscus	Hibiscus Rosa-Sinensis	
2	Chamomile	Matricaria Chamomilla	

3	Holy Basil	Ocimum Tenuiflorum	
4	Lily	Lilium	
5	Marigold	Tagetes	
6	Fig Trees	Ficus Carica	
7	Crape Jasmine	Tabernaemontana Divaricate	
8	Devil's Ivy	Epipremnum Aureum	
9	Nettlespurges	Jatropha	
10	Duranta	<i>Duranta Erecta</i>	

11	Madagascar Periwinkle	Catharanthus Roseus	
12	Chrysanthemum	Chrysanthemum Indicum	
13	Durango	Datisca Glomerata	
14	Cactus	Cactaceae	
15	Croton	Codiaeum Variegatum	
16	Guava	Psidium Guajava	

17	Papaya	Carica Papaya	
18	Sugarcane	Saccharum Officinarum	
19	Champa	Magnolia Champaca	
20	Rangoon Creeper	Combretum Indicum	
21	Monkey Puzzles	Araucaria	
22	Sunflowers	Helianthus	

23	Mandarin Orange	Citrus Reticulate	
24	Malabar Spinach	Basella Alba	
25	Curry Tree	Murraya Koenigii	
26	Neem Tree	Azadirachta Indica	
27	Arjun Tree	Terminalia Arjuna	
28	Mint	Mentha	

29	Serbian Bellflower	Campanula Poscharskyana	
30	Snake Plant	Dracaena Trifasciata	
31	Morpankhi	Platyclusus Orientalis	
32	Song Of India	Dracaena Reflexa	
33	Murraya	Murraya Paniculata	
34	Bottle Palm	Hyophorbe Lagenicaulis	

Plants









Annexure 3: List of Bird Species found in the Campus

List of bird species:

- Black Kite (*Milvus migrans*)
- Shikra (*Accipiter badius*)
- Brown-headed Barbet (*Megalaima zeylanica*)
- Copper smith Barbet (*Megalaima haemacephala*)
- Asian Koel (*Eudynamys scolopaceus*)
- Blue Rock Pigeon (*Columba livia*)
- Eurasian collared Dove (*Streptopelia decaocto*)
- Rose ringed Parakeet (*Psittacula krameri*)
- Jungle Babbler (*Turdoides striata*)
- Common Myna (*Turdoides striata*)
- Oriental Magpie Robin (*Copsychus saularis*)
- Common Tailor Bird (*Orthotomus sutorius*)
- Purple Sunbird (*Cinnyris asiaticus*)
- House Sparrow (*Passer domesticus*)

Annexure 4: 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 utilise 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/NO)	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	YES	UV Filtering windows are present. 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 borewell
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
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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 signage 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/ envelops	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.


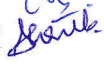
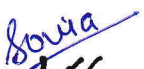


Green Program

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	

6	Mindset for reduction, recycle of waste (Green mindsets)	YES	The use of paper both sides is practiced.
5	Digitization	YES	Providing e-notes to the students. The institute has ERP system for faculties, staff and students.
6	E-archiving	YES	The institute has shared drive for archiving official data.
7	E-resources: E books, Online Journals, membership of the consortium	YES	The institute is a member of DELNET & N-List.
8	Maintaining green campus / Greening of campus	YES	A dedicated team is there for ensuring greening of campus.

Members of the Committee: -

Internal Auditors: -

- Dr. Anu Bhardwaj 
- Dr. Shruti Bhuttani 
- Ms. Pooja Madaan
- Ms. Sonia Gandhi 
- Ms. Garima Saini 
- Ms. Anshu Punshi 

External Auditor

- Prof. Satish Chandra Garkoti 