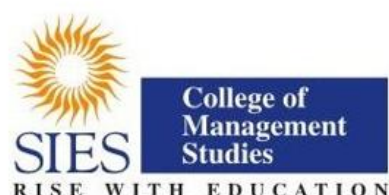


SIES College of Management Studies, Nerul, Navi Mumbai



Environment and Green Audit Report (2025-26)

Audited
By



**SIES Indian Institute of Environment Management
(SIES IEM)**

**ISO 9001: 2015 Certified Institute for Education, R&D and
Lab Testing Services in Environment Area**

Environment and Green Audit

An environmental audit is a systematic review of an organization's compliance with environmental laws and sustainability practices, while a green audit focuses more specifically on resource use, waste management, and eco-friendly initiatives to promote sustainable development. For **institutions** like colleges, universities, and schools, environmental and green audits are increasingly important because they demonstrate accountability, sustainability, and compliance with accreditation requirements

Purpose and Methodology

Purpose and Intent of the Environment and Green Audit

The main goal of the green audit is to improve environmental management and conservation on the campus. The audit aims to identify, measure, describe, and prioritize actions to achieve environmental sustainability, ensuring compliance with regulations, policies, and standards. Specifically, the objectives are:

- **Awareness:** Teach students about environmental issues and the importance of sustainability.
- **Health and Safety:** Protect the environment and reduce risks to human health by examining how resources are used on campus.
- **Baseline Data:** Create a baseline of environmental data to help plan for future sustainability and avoid costly environmental problems.
- **Compliance Report:** Provide a current report on how well the campus meets environmental and energy regulations.

Methodology

The following methods were used to perform the audit:

- **Campus Inspection:** Physically inspecting the campus.
- **Observations and Reviews:** Observing and reviewing existing documentation.
- **Interviews:** Talking to key people involved in campus operations.
- **Monitoring and Data Analysis:** Monitoring significant parameters and analysing data.
- **Report and Recommendations:** Provide an audit report along with suggestions for improvement.

The Audit focused on the following areas to assess the status of environmental management on campus:

- **Water Use:** How water is consumed and managed.

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- **Air Quality:** Assessing and managing air quality.
- **Electricity Use:** Monitoring and managing electricity consumption.
- **Use of other sources of energy**
- **Noise Pollution:** Monitoring sound levels.
- **Waste Management:** Managing waste effectively.
- **Biodiversity:** Evaluating the variety of plant and animal life on campus.



About SIES IIEM

The SIES Indian Institute of Environment Management (SIES IIEM) is a premier academic and research institution, founded in 1999 by the SIES Society. Established with a mission to train professionals and develop innovative, need-based solutions in Sustainable Environment Management, the institute has earned recognition from the Department of Scientific and Industrial Research (DSIR), Government of India. Additionally, it holds ISO 9001:2015 certification for its Research & Development and laboratory testing services.

Equipped with advanced facilities, the institute specializes in conducting comprehensive Green Audits and offering expert consultancy services in environmental sustainability. Our green audit services help organisations assess their environmental impact, identify areas for improvement, and design strategies to reduce their ecological footprint. Backed by a team of highly skilled professionals, we deliver solutions that enable clients to achieve sustainability goals while ensuring compliance with environmental regulations. At SIES IIEM, we are committed to promoting a sustainable future, and our ISO certification and extensive expertise in green audits reflect our dedication to upholding the highest standards of excellence in environmental management.

Since its inception, the institute has built strong collaborations with regulatory authorities, government agencies, industries, and private environmental consultants. Through a wide array of R&D projects and industrial consultancy, our faculty offers high-quality technical advisory support to both public- and private sector organisations. Additionally, we provide comprehensive environmental monitoring, testing, and analysis services for various sample types. With state-of-the-art laboratories, we focus on pioneering solutions for sustainable environmental management through cutting-edge research and development.

SIES IIEM team for the Audit

Name	Designation	Qualifications
Dr Sangeeta Sharma	Director (I/C)	Internal Auditor for Quality Management System & Environmental Management System As per ISO 9001:2015, ISO 14001:2015
Dr Suman Rani	Assistant Professor	Internal Auditor for Quality Management System & Environmental Management System As per ISO 9001:2015, ISO 14001:2015
Mr Ajinkya Sonar	Admin	Internal Auditor for Quality Management System & Environmental Management System As per ISO 9001:2015, ISO 14001:2015
Mr Kailash Jaiswar	Lab Assistant	Internal Auditor for Quality Management System & Environmental Management System As per ISO 9001:2015
Dr Namrata Kislay	Assistant Professor	Member Audit Team
Ms Dipti Bhoir	Project Coordinator	Member Audit Team

Executive Summary of Findings and Observations

Introduction

This report outlines the scope of the Green Audit conducted by SIES IIEEM for SIES College of Management Studies (**SIESCOMS**), Navi Mumbai, in compliance with regulatory norms, including NAAC Criteria 7.1.6. The audit evaluates environmental and energy practices on campus, guiding the institution towards sustainable development and improved NAAC ratings.

Audit Objective: To assess compliance with NAAC Criteria 7.1.6, which focuses on regular quality audits concerning the environment and energy. Provide recommendations to integrate sustainability into campus operations and education to foster a culture of responsibility and innovation among students.

- Significance:** This criterion encourages institutions to engage in environmental stewardship and energy conservation, influencing NAAC ratings.
- Global Alignment:** It aligns institutional practices with Sustainable Development Goals (SDGs), positioning educational institutions as key contributors to global sustainability efforts.

Green Audit/Environment Audit

Audit Objective: To evaluate the institution's environmental practices, identify areas for improvement, and implement sustainable strategies.

Audit Component	Sub-Component	Details
Scope	Current Practices Assessment	Evaluated existing environmental practices
	Improvement Identification	Identified areas needing improvement
Key Findings	Waste Management	Practices are in place
	Water Conservation	Scope for improvement (e.g., special faucets, waterless urinals)
	Biodiversity	Efforts to maintain biodiversity are visible
Recommendations	Water Conservation Measures	Implement advanced water-saving technologies

Energy Audit

Audit Objective: To evaluate energy use and identify ways to save energy.

Audit Component	Sub-Component	Details
Scope of Audit	Energy Consumption Analysis	Examined patterns of energy use
	Efficiency Improvements	Identified areas for energy efficiency enhancements
	Technology Adoption	Assessed the implementation of energy-saving technologies and practices
Key Findings	Energy Consumption Patterns	Significant areas of energy use identified
	Efficiency Potential	Institute may continue research to mitigate per capita or sq. ft energy consumption
	Technology Use	Energy-saving technologies are in use
Recommendations	Improve Efficiency	Implement additional energy-saving technologies and practices over the next few years
	Energy Management Systems	Plan for smart energy management systems for better control and monitoring

Clean and Green Campus Initiatives

Audit Objective: To evaluate the institution's initiatives for maintaining a clean and green campus.

Audit Component	Sub-Component	Details
Scope of Audit	Recycling Programs	Assessed the effectiveness of recycling programs
	Green Transportation	Evaluated the promotion of green transportation methods
	Green Spaces	Reviewed the maintenance of green spaces
Key Findings	Recycling Programs	Programs are in place
	Green Transportation	Not a significant environmental aspect since the Institute does not have its own transport facilities
	Green Spaces	Well-maintained green spaces

Beyond the Campus: Environmental Promotion and Sustainability Activities

Audit Objective: To evaluate the institution's efforts to extend environmental initiatives beyond the campus.

Audit Component	Sub-Component	Details
Scope of Audit	Community Engagement	Assessed involvement in community clean-up drives and awareness campaigns
	NGO Collaboration	Reviewed collaborations with local NGOs on sustainability projects
	Policy Advocacy	Evaluated efforts in advocating for environmental issues
Key Findings	Community Engagement	Active participation in community environmental activities is recommended
	NGO Collaboration	Some collaborations with NGOs exist
	Policy Advocacy	Some advocacy efforts were observed
Recommendations	Increase Community Activities	Organise more community clean-up drives and campaigns
	Enhance NGO Collaboration	Partner with more NGOs for broader impact
	Strengthen Policy Advocacy	Engage more actively in policy advocacy for environmental issues

Opportunities for Improvement

1. The institute should conduct regular audits to monitor their consumption of water, electricity and waste generation and disposal as well.
2. Organise awareness programs on environmental management systems and nature conservation for schools and the local community.



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About The Institute -SIESCOMS

The SIES College of Management Studies (SIESCOMS) was established in 1995. SIESCOMS envisages providing quality management education for the nascent professionals, the dynamic future managers of the 21st century. SIESCOMS traces its roots to the rich tradition of South India Education Society (SIES), one of the oldest and value-based educational trusts that runs several educational institutes in the cities of Mumbai and Navi Mumbai. Located on a sprawling campus at Nerul, the academic hub of Navi Mumbai, SIESCOMS boasts one of the best physical infrastructure and academic ambience befitting a modern B-school.

Ever since its inception, the academic programs of the institute enjoy the full support and patronage of the corporate sector and other stakeholders. Today, SIESCOMS holds a place of distinction among premier business schools in India. It is the first B-school in the country to start an exclusive vertical MBA program for the pharmaceutical industry. Similarly, it is one of the few B-schools to conceive a vertical program for the biotech sector. The program for the NGO sector is the other unique initiative.

SIESCOMS has always been striving to provide quality education, and in that pursuit, SIESCOMS received the ISO 9001:2015 Certification for quality management education from the Lloyd Register Quality Assurance (LRQA). An important milestone on its journey of continuous quality improvement was reached when SIESCOMS was conferred with the prestigious Ramakrishna Bajaj National Quality (RBNQ) award for the year 2008 in the "Education category. This is the only award developed in the country along the lines of the Malcolm-Baldrige National Quality Award. The institute also holds NAAC & NBA accreditation to its credit.

A highly committed group of qualified and experienced faculty members, enjoying respect and recognition in the academic community and the corporate sector, forms an enviable part of our academic team. The majority of them have managerial experience and continue to maintain close links with outside organizations through consulting and research. They are thus adept at bridging the gap between theory and practice. Our faculty have drawn on their passion for teaching, their experience in working with organizations worldwide, and insights gained from their research to educate generations of leaders who have shaped the practice of business in every industry. The core faculty base of 27 is supplemented with visiting faculty from the corporate world.

Research is at the core of SIESCOMS. The institute is also known for being one of the most innovative business schools, always doing something new and creative, either in product or process. SIESCOMS has consistently been the top-of-mind recall for both students and corporates, as a cherished business school.

Similarly, the placement track record has always been phenomenal. The college has strong corporate networking and is engaged in organizing several Management Development Programs (MDPs) and Consultancy Activities.

Vision of the Institution

SIESCOMS has set up four centres of excellence: Banking and Finance, NGO & CSR, Entrepreneurship and Operations. The objectives are two-fold: to give specific focus on these areas and to provide special developmental interventions for students in these sectors/domains.

Mission of the Institution

- ✚ To provide an education that equips students with knowledge, skills and attitude that meets industry expectations.
- ✚ To develop critical thinking and innovative skills through experiential learning, applied research and mentoring.
- ✚ To instil and nurture a sense of ethics and values in students.
- ✚ To impart leadership and collaborative skills with high professional competence

Quality Policy

SIESCOMS is one of the coveted business schools in the country. With a good number of highly qualified faculty in different functional areas including technology and state of the art infrastructure, SIESCOMS symbolizes the best academic ambience for students. The teaching methodology is application driven to ensure development of required competencies in terms of the Program Objectives. Both our programs' MMS and MCA are highly respected by students as well as recruiting companies.

Besides studies, the institute also emphasizes holistic development of students. Adequate attention is paid to the physical as well mental / psychological growth of the students. They also spend considerable time on field projects, assignments which are application oriented and summer internships so that the students, by end of their journey, come out fully competent to shoulder any challenge of corporate responsibility.

Internal Quality Assurance Cell (IQAC) is the prime driver of all quality initiatives at the institute. It is a body that represents all major stakeholders of the institute, internal as well as external, and manages quality efforts at the institute. The role of IQAC is also to review and take corrective actions, wherever needed, to strengthen quality initiatives of the institute. Continuous improvement in quality remains the hall mark of focus of IQAC.

Some of the key areas of focus include:

1. Holistic student development
2. Faculty Development & progress
3. Academic delivery and Excellence
4. Placement support, Mentoring & Support services
5. High standard of Ethics & Values

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Students and staff statistics for SIESCOMS

Total students in college	Total Teaching Staff	Total Non-Teaching Staff
583	27	27

College Internal Audit Committee

The college has constituted its internal audit committee to evaluate the adequacy of the system on internal controls, recommend improvements in controls, and assess compliance with policies and procedures at the institute.

Internal Audit Committee

Sr.	Name of the Committee Member	Role
1.	Dr. Madhavi Dhole	Convenor
2.	Ms. Kartika Rane	Registrar
3.	Dr. Shilpa Mahalle	IQAC Coordinator
4.	Prof. Dipti Periwai	Member
5.	Dr. Ira Kumar - Member	Member
6.	Dr. Abhishek Deokule	Member

Energy Audit

The energy audit is an effective tool for defining and pursuing comprehensive energy management programs. It contributes to energy cost optimization, pollution control, and safety enhancement, while recommending improved operating and maintenance practices. The audit also assists in managing variations in energy costs, ensuring the reliability of energy supply, guiding decisions on the appropriate energy mix, and promoting the adoption of advanced energy conservation measures and technologies.

Methodology

This indicator evaluates energy consumption, sources, monitoring practices, lighting systems, and appliance usage. Energy utilization is a critical aspect of campus sustainability and is therefore integral to the assessment.

- ✚ **Assessment of Consumption:** Existing energy consumption patterns across electrical appliances were analyzed.
- ✚ **Walk-Through Survey:** A survey was conducted to examine the nature and efficiency of installed energy devices, including fans, tube lights, air conditioners, and other equipment.
- ✚ **Inventory of Devices:** A complete count of all energy-consuming devices and equipment was undertaken to establish a baseline for energy demand and identify opportunities for efficiency improvements.

Energy Assessment

Electricity remains the primary energy source utilized across all departments and common facility centres of the college. The college's total electricity consumption is approximately **6,495.2 kWh** per day, with annual usage for 2025–26 recorded at **1,218,031.5 kWh**.

However, the total consumption reflected in electricity bills is **1,182,823 kWh**, with the difference of **35,208.464 kWh** attributed to student events and festivals, highlighting the additional energy demand during such activities.

Energy assessment details for the year 2025-26

Parameter	Value	Remarks
Daily electricity consumption	6,495.2 kWh	Aggregated across departments
Monthly average consumption	142677.6 kWh	Stable usage pattern
Annual consumption	1218031.5 kWh	Matches billing records
Average Power Factor	0.98	Indicates efficient usage

The average **power factor (P.F.)** is found to be **0.98** (as per the electricity bills) during the year 2025-26, which shows efficient usage of energy with minimum wastage.

Energy Conservation Measures

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- ✚ **Lighting Efficiency:** Traditional tube lights have been systematically replaced with LED fixtures, resulting in significant energy savings. Damaged tube lights were substituted with CFL units already available on campus, ensuring reuse and minimizing waste.
- ✚ **ICT Practices:** All computers are operated in **power-saving mode**, reducing idle energy consumption. Staff, students, and housekeeping personnel are encouraged to switch off lights, monitors, and other equipment when not in use. Regular preventive maintenance of air conditioning units is carried out to maintain efficiency and extend equipment life.
- ✚ **Awareness Initiatives:** Energy-saving awareness boards, wall posters, and signage are prominently displayed across the campus to remind students and staff of best practices in power conservation. Continuous sensitization efforts encourage the campus community to adopt energy-conscious habits, reinforcing the culture of sustainability. posters pictures from classroom are shown below.



Energy Generated from Solar Panel

SIES COMS had a solar energy system installed on the campus (rooftop) with a capacity of 189.7 kW to supplement electricity requirements and promote renewable energy adoption. The system was not functional; it was uninstalled because the building was under renovation during the audit period (2025-26). The system was reinstalled in early 2025, with online monitoring software activated to record generation data. The system was working during the visit, and all seven inverters were operational. The electricity generation details are provided here.

- * **Total Recorded Generation: $\approx$ 13.16 MWh**
- * **Specific Yield: 69.37 kWh/kWp/year**



Rooftop Solar Panel System

Observations and Recommendations

- i. Energy consumption is efficient and well under control.
- ii. Smart meter monitoring for consumption data will help in the identification of areas of excess energy consumption for proper management.
- iii. Preventive maintenance and cleaning of solar panel systems are essential to maintain efficiency.
- iv. The system demonstrates potential for higher yield with improved maintenance and timely replacement of outdated components.
- v. Utilize advanced monitoring tools to track generation trends and detect anomalies early.

Environment Audit

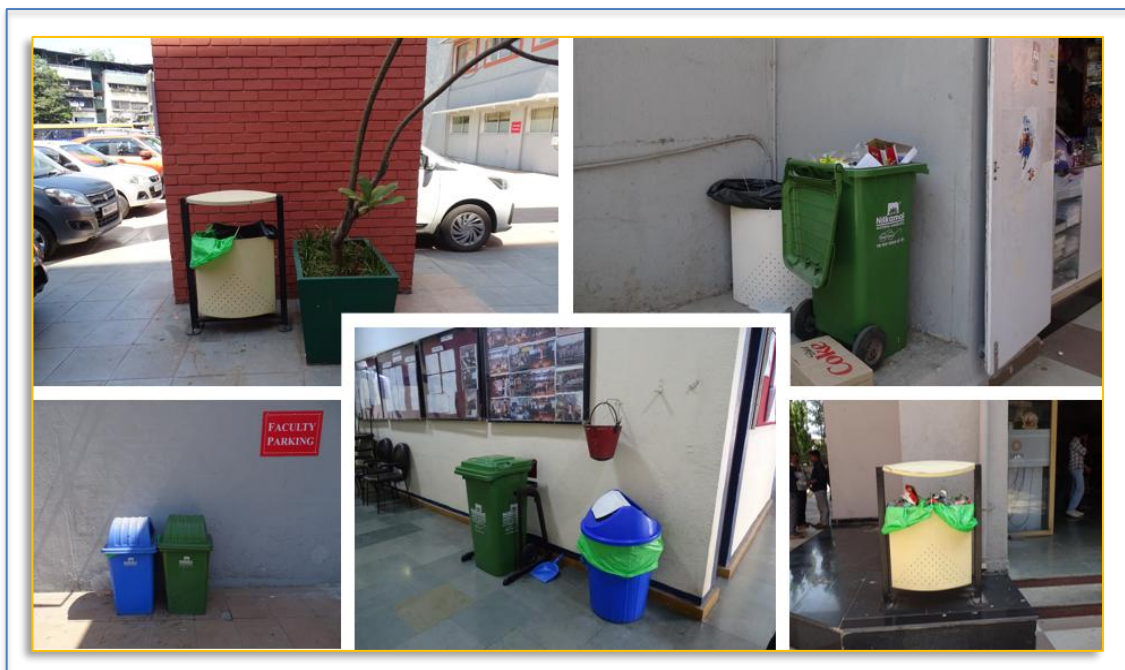
1. Waste Audit

The campus systematically segregates and processes routine waste including garden waste, general garbage, paper, and electronic items directly at the source. In compliance with environmental standards, the college utilises colour-coded disposal systems across its facilities. Green bins are designated for wet, biodegradable waste, while blue bins are used for dry, non-biodegradable materials. To ensure complete coverage, the campus has deployed 6 large garbage bins and 46 small garbage bins throughout common areas and staff rooms.

Collection Infrastructure and Placements Details

Category	Big Bins	Small Bins	Location Details
Wet Waste	7	30	Distributed across floors, classrooms, canteen, parking, basement, bathrooms
Dry Waste	4	12	Placed in classrooms, faculty rooms, library, computer lab, exam cell, admin office
Floors	9 big bins	Multiple small	Ground floor (2 big), 1 each on 1st–4th floors, extensions, parking, basement, bathrooms
Classrooms & Faculty Rooms	–	Multiple small bins	One small dustbin per classroom and faculty room
Canteen	1 big + 1 small	1 big + 1 small	Separate bins for wet and dry waste
Admin Office	–	3	Small bins only
Exam Cell	–	1	Small bin
Library	–	2	Small bins
Computer Lab	–	1	Small bin
Pantry & Washrooms	–	Multiple small	Small bins in each washroom and pantry

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Waste bins placed at various locations within the campus

Biodegradable Waste/Wet waste

Biodegradable waste is transformed on-site using five dedicated compost pits. Organic waste from college premises, along with vegetable and fruit scraps collected regularly from teachers, serves as the raw material for this system. Once harvested, the nutrient-rich compost is used as manure to maintain campus gardens and lawns, and any surplus is distributed to students, staff, and visitors.



Compost pits at the Campus

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Compost generated at the campus

Plastic Waste Management

The institute follows plastic waste management practices. The collected waste is segregated and sent to an authorized plastic recycler in regular practice. The Nerul Campus has a MoU with **Stree Mukti Sangathan**, an NGO that works in the area of plastic waste management; they dispose of the plastic waste by recycling with the support of Bisleri Ltd. The SIES management is also having a policy for the complete ban of single-use plastic as per the Plastic Waste Management Rule amendment, 2022.

Signboards/Posters are displayed on the college campus to promote the idea of a plastic-free environment.



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For non-organic waste, items such as e-waste, metal, wood, glass, and plastic scrap are systematically collected and disposed of by NMMC regularly. Educational posters and signboards are also prominently displayed across the campus to encourage a plastic-free environment.

Details of different categories of waste generated at the SIESCOMS campus

Sr.	Waste Type	Sources	Approx. Waste quantity (Kg/day)	Action Taken
1	Paper waste	Office, library, Exams, etc.	20	Segregated waste is disposed of through NMMC for further treatment regularly.
2	MSW collected from dustbins	Classrooms, office, library corridor	54	
3	Other solid waste (Plastic, Glass, metal, wood, e-waste, etc.)	Computer labs, damaged furniture from campus	30	
4	Biodegradable waste (Garden waste)	Garden and temple waste	96	Sent to the college's composting site for composting
6	Sanitary solid waste	Ladies' washroom	4	Disposed of through NMMC for further treatment

As part of the Green Initiatives and implementing measures towards a Zero-waste Campus, staff and students are making efforts to keep the campus environmentally sustainable. Attempts are being made to reduce waste of all kinds produced.

Waste management procedures and practices followed within the campus

As a part of our environmentally responsible behaviour, SIES management came up with an initiative "Mission 6 R Campaign", to promote effective solid waste management and a plastic-free campus. This mission has emphasized activities like awareness campaigns, workshops, and training not only for our students but also extending our efforts for the benefit of the communities.

Recommendations

- An annual MOU with service provider organizations for e-waste management helps maintain the waste management process.
- Benchmark against NBC 2016 solid waste norms and CPCB guidelines
- Setting targets for reduction (e.g., 10% less paper waste per semester) will help to make the campus trash eco-friendly.
- Conduct annual review and update infrastructure accordingly, and training of the cleaning staff will help to manage the waste.

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- v. Compost quality analysis will help to enhance the quality of compost and its effective use for plants and soil.

2. Water Audit

The study observed that Municipal water supply is the major source of water in the Mumbai region. Water is used for drinking purposes, toilets, cleaning, and gardening. On average, the total use of water in the college is **22296 L/day**, which includes **22096 L/day** for domestic purposes and **200 L/day** for gardening. Groundwater is used for gardening purposes.

Water consumption details at the SIESCOMS campus

Activity	Average water used per activity (L)	Average Number of activities done each day	Total water used by a person each day (L)	The number of people in the College using water	Total water consumption per day (L)
Wash hands/face wash	2	3	15	644	9660
Drinking	6	3	18	644	11592
Toilet flush	1	1	1	644	644
Gardening	600	1	twice a week	1	200
Cleaning/Mopping of floor	200	1		1	200
Total (L)					22296

Drinking water analysis report

UV water filters are used for drinking water. Two drinking water samples from water coolers were analyzed to check the potability of water as per IS 10500:2012.

Parameters	1st Floor	2nd Floor	3rd Floor	4th Floor	Acceptable Limit as per IS 10500: 2012
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
pH	6.07	5.88	5.95	6.12	6.5 to 8.5
E.C (μS/cm)	150	130	130	190	300
Turbidity	1.5	0.8	0.9	0.7	1.0
Total Suspended Solid, (mg/L)	4	4	4	0	500 mg/l
Total Dissolved Solids (mg/L)	62	64	64	99	500 mg/l
<i>E coli.</i> (/100ml)	Negative	Negative	Negative	Negative	0

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Drinking water, as per the given specification, is observed to be **safe for Drinking**.

The management had a contract with **Fontek Corporation** for the annual maintenance (AMC) of water coolers for the period 2025-26. Water coolers are efficiently maintained with regular service, and servicing records were also maintained by the institute.



Rainwater Harvesting System

The institute has installed a rainwater harvesting system on the campus. It is a recharge pit having a 14-foot-deep ring well, containing 13 rings. The capacity of the recharge pit is 7000 litres. With this facility, flooding due to heavy rain in the basement area of the campus can be avoided. This has also helped in the reduction of the pH of borewell water from 8.5 to 7.3.



Recommendations

- i. Fix leaks promptly in pipelines, taps, and storage tanks.
- ii. Replace fixtures with low-flow taps, aerators, and dual-flush toilets.
- iii. Optimize canteen dishwashing and lab processes to reduce wastage.
- iv. Install water meters in every building of the institute to track water consumption per capita.
- v. The flow rate of taps should be monitored, ensuring the flow rate of taps does not exceed 2.5 litres per minute.

3. Noise Environment

The noise level measurements were carried out using a Noise level meter. The noise level survey was carried out at twelve locations (including the entrance, office, and classroom). The college is located adjacent to a busy commuting road. The measured noise levels were found to be higher than the permissible limit.

Noise levels measured at various locations within the campus

Sr.	Location	Minimum Reading in dB	Maximum Reading in dB	Standard Limits* dB
1	Main gate	65.6	72.3	50
2	Back side of building	58.7	67.8	50
3	Lobby / corridor	62.9	68.2	50
4	Admin office	59.5	70.2	50
5	Staff room	52.4	64.1	50
6	Classroom	73	85.6	50
7	Canteen	72.9	85.2	50
8	1st Floor	63.7	75.2	50
9	2nd Floor	63.5	74.8	50
10	3rd Floor	69.4	80.5	50
11	Library	41.1	63.3	50
12	Seminar/conference room	52.5	69.5	50

***Standard limits for Noise level as per the Noise Pollution (Regulation and Control) Rules, 2000: 50 dB (During daytime)**

Observations and Recommendations

1. The noise levels on the campus are a bit high as per the permissible limits. Placing potted plants and rotating students and faculty as per time will help reduce the noise level near the office.
2. The noise barrier facade on the boundary walls of the college will help to reduce the noise level on the campus.

4. Air Quality

The air quality assessment at the campus was carried out using a personal sampler. The air quality monitoring was carried out at 2 locations, the Front Gate and the Back gate of the college, by assessing the suspended particulate matter (SPM). The air quality on the campus is very good as the SPM level is found within permissible limits ($140 \mu\text{g}/\text{m}^3$).

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Green Audit

The college attempts to maintain an eco-friendly atmosphere on campus; the number and variety of plant species help to maintain an eco-friendly ambience. There are 42 different types of plants on campus.



The tree population of the campus comprise the following species:

List of Plants/Trees at the Campus

Sr. No	Name of the Plant	Habit	Family
1	<i>Citrus reticulata</i>	Shrubs	Rutaceae
2	<i>Hamelia patens</i>	Shrubs	Rubiaceae
3	<i>Syzygium cumini</i>	tree	Myrtaceae
4	<i>Crinum asiaticum L.</i>	Herb	Amaryllidaceae
5	<i>Mangifera indica L.</i>	Tree	Anacardiaceae
6	<i>Furcraea Foetide (L).</i>	Shrubs	Agavaceae
7	<i>Ravenala Madagascariensis</i>	tree	Strelitziaceae
8	<i>Portulaca oleracea (L).</i>	Shrubs	Portulcacea
9	<i>Tecoma stans</i>	Shrubs	Bignoniaceae

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10	<i>Eucalyptus globulus</i> Labill.	Tree	Myrtaceae
11	<i>Ficus religiosa</i> L.	Tree	Moraceae
12	<i>Caesalpinia pulcherrima</i> (L)	Shrubs	Fabaceae
13	<i>Psidium guajava</i> L.	Tree	Myrtaceae
14	<i>Fraxinus excelsior</i> L.	Tree	oleaceae
15	<i>Canna indica</i> L.	Shrubs	Cannaceae
16	<i>Solanum diphyllum</i> L.	Shrubs	Solanaceae
17	<i>Pedilanthus tithymaloides</i> (L). poit	Shrubs	Euphorbiaceae
18	<i>Jasminum sambac</i> (L) Aiton	Shrubs	Oleaceae
19	<i>Camellia Japonica</i> L.	Shrubs	Theaceae
20	<i>Epipremnum pinnatum</i> (L)	Hurb	Araceae
21	<i>Syngonium Podophyllum</i> Schott	herbaceous	Araceae
22	<i>Tabernaemontana divaricate</i> (L)	Shrubs	Apocynaceae
23	<i>Cadiaeum Variegatum</i> (L) A. Juss	Shrubs	Euphorbiaceae
24	<i>Ocimum basilicum</i> L.	Shrubs	Lamiaceae
25	<i>Nerium Olander</i> L.	Shrubs	Apocynaceae
26	<i>Cocos Nucifera</i> L.	Shrubs	Arecaceae
27	<i>Gleditsia Triacanthos</i> L.	Tree	Fabaceae
28	<i>Curcuma Longa</i>	Shrubs	Zingiberaceae
29	<i>Robinia Pseudoacacia</i> L.	Tree	Fabaceae
30	<i>Viburnum opulus</i> L.	Shrubs	Caprifoliaceae
31	<i>Hibiscus rosasinensis</i> L.	Hurb	Malvaceae
32	<i>Calotropis procera</i>	Hurb	Asclepiadaceae
33	<i>Caria papaya</i> L.	Tree	Caricaceae
34	<i>Plumeria obtusa</i> L.	Shrubs	Apocynaceae

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35	<i>Polyalthia longifolia</i>	Tree	Annonaceae
36	<i>Agave americana L.</i>	Shrubs	Agavaceae
37	<i>Ficus elastica Roxb. ex Hornem</i>	Shrubs	Moraceae
38	<i>Pittosporum undulatum Vent</i>	Tree	Pittosporaceae
39	<i>Aglaonema Commutatum schott</i>	Shrubs	Araceae
40	<i>Colocasia esculenta (L). Schott</i>	Shrubs	Araceae
41	<i>Nephrolepis exaltata (L) schott</i>	Shrubs	Pryopteridaceae
42	<i>Albizia julibrissin</i>	Tree	Fabaceae

Along with plant diversity, a study on bird diversity on the campus of SIES Nerul was done over one year. A total of 25 bird species and butterfly species were observed.

Bird species observed at the campus

	Common Name of Bird	Scientific Name
1	House Sparrow	<i>Passer domesticus</i>
2	House crow	<i>Corvus splendens</i>
3	Common myna	<i>Acridotheres tristis</i>
4	Asian koel	<i>Eudynamys scolopaceus</i>
5	Greater coucal	<i>Centropus sinensis</i>
6	White-throated kingfisher	<i>Halcyon smyrnensis</i>
7	Black drongo	<i>Dicrurus macrocercus</i>
8	Common tailorbird	<i>Orthotomus sutorius</i>
9	Oriental magpie-robin	<i>Copsychus saularis</i>
10	Red-whiskered bulbul	<i>Pycnonotus jocosus</i>
12	Red-vented bulbul	<i>Pycnonotus cafer</i>
13	Common iora	<i>Aegithina tiphia</i>
14	Asian pied starling	<i>Gracupica contra</i>

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15	Purple-rumped sunbird	<i>Leptocoma zeylonica</i>
16	Purple sunbird	<i>Cinnyris asiaticus</i>
17	Coppersmith barbet	<i>Psilopogon haemacephalus</i>
18	Green bee-eater	<i>Merops orientalis</i>
19	Rose-ringed parakeet	<i>Psittacula krameri</i>
20	Cattle egret	<i>Bubulcus ibis</i>
21	Pond heron	<i>Ardeola grayii</i>
22	Black Kite	<i>Milvus migrans</i>
23	Indian golden oriole	<i>Oriolus kundoo</i>
24	White wagtail	<i>Motacilla alba</i>
25	Domestic pigeon	<i>Columba livia domestica</i>

Butterfly species observed at the campus

Sr. No.	Common Name	Scientific Name
1	Oriental Plain Tiger	<i>Danaus chrysippus chrysippus</i>
2	Oriental Striped Tiger	<i>Danaus genutia genutia</i>
3	Indian Common Crow	<i>Euploea core core</i>
4	Oriental Blue Tiger	<i>Tirumala limniace exotica</i>
5	Baronet	<i>Symphaedra nais</i>
6	Oriental Grey Pansy	<i>Junonia atlites atlites</i>
7	Oriental Tailed Jay	<i>Graphium agamemnon agamemnon</i>
8	Common emigrant	<i>Catopsilia Pomona</i>
9	Common Mormon	<i>Papiliopolytes Linnaeus</i>
10	Gram blue	<i>Euchrysops cnejus</i>
11	Red Pierrot	<i>Talicauda nyseus</i>

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Support of Trees in Institute Campus in Balancing Net Carbon Emission

Sr. No	Particulars	Observed value	Units
1	Total energy consumption/day	6495.2	KWh
2	Total energy consumption/month	142677.564	KWh
3	Total energy consumption/year	1218031.464	KWh
A	Total carbon emission from electricity	852.6	Tonnes CO ₂ /year
B.	CO ₂ sequestration from trees	0.359	Tonnes/year
C.	Net carbon emission (A - B)	852	Tonnes/year

Observations and Recommendations

- i. The college is maintaining the green cover efficiently around the campus.
- ii. The campus can be net zero by promoting EV vehicles, increasing solar power generation capacity, and installing smart switches



**Other Initiatives
by
SIESCOMS**

Clean and Green Campus Initiatives

Plantation Drive at SIESCOMS Campus

Date: 7th October 2025

Initiative: Clean and Green Campus Program

As part of the ongoing *Clean and Green Campus Initiatives*, SIES College of Management Studies (SIESCOMS) organized a **Plantation Drive** on 7th October 2025. The activity was aimed at enhancing the campus's green cover, promoting environmental awareness among students, and reinforcing the institution's commitment to sustainability.

Faculty members, staff, and students actively joined hands in planting saplings across designated areas of the campus. A diverse mix of native species was chosen to ensure ecological balance and long-term sustainability. The drive was accompanied by short talks on the importance of afforestation, biodiversity conservation, and the role of green campuses in mitigating climate change. The initiative not only beautified the campus but also instilled a sense of responsibility among the academic community toward environmental stewardship.

This plantation drive reflects SIESCOMS's vision of creating a **model eco-friendly campus**. By integrating sustainability into everyday practices, the institution continues to inspire students to adopt green habits and contribute to broader environmental goals.



Beyond the Campus

Environmental Promotion and Sustainability Activities

Beach Cleaning Drive at Mini Beach, Vashi

Date: 21st April 2026

Initiative: Plastic Sensitization Campaign

Under the banner of the *Plastic Sensitization Initiative*, SIES College of Management Studies (SIESCOMS) organized a **Beach Cleaning Drive** at Mini Beach, Vashi, Navi Mumbai, on 21st April 2026. The activity was designed to raise awareness about the growing menace of plastic pollution, encourage responsible waste management, and foster community participation in environmental protection.

Students, faculty, and volunteers joined hands to collect plastic waste and other litter from the shoreline. Short discussions were held on the harmful impacts of single-use plastics on marine ecosystems and human health. Residents and beachgoers were sensitized about reducing plastic usage and adopting eco-friendly alternatives. Several kilograms of plastic waste were removed, significantly improving the cleanliness of the beach and reinforcing the importance of collective action.

This drive exemplifies SIESCOMS's commitment to **environmental stewardship and sustainable practices**. By combining hands-on action with sensitization efforts, the initiative not only restored the beauty of Mini Beach but also inspired participants to become ambassadors of plastic-free living.

