



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

Date: 24.12.2023

DVV Clarifications for Metric Level Deviations Quality Indicator Framework 7.1.3

Point-wise Reply:

Point No.	DVV Clarifications	Reply
1	Policy document on environment and energy usage	Policy Document on Environment and Energy Usage has been provided herewith.
2	Action taken reports and achievement report as clear and Green campus initiatives.	Reports on Beyond Campus Environmental Promotion Activities have been provided herewith.
3	Reports of the Audits.	Reports of Energy, Green & Environmental Audit from the Government Recognized Body have been provided herewith.
4	Certificate from the external accredited auditing agency (preferably government, concern department of affiliating university).	Certificates from the external accredited auditing agency (recognised by the government) have been provided herewith.
5	Geo tagged photographs with caption and date.	Geo tagged photographs with caption and date have been included in the various audit reports provided in Point No. 3.
6	Any other supporting document for beyond the campus environmental promotions	Reports of Beyond the Campus Environmental Promotion activities have been provided in the Point No. 2.

Institutional Website Link for Report on Beyond Campus Environmental Promotional Activities

<https://nesedu.in/wp-content/uploads/2023/12/7.1.3.a.pdf>

Institutional Website Link for Energy, Green & Environment Audit Certificates from Certified Agency

<https://nesedu.in/wp-content/uploads/2023/12/7.1.3.b.pdf>

Institutional Website Link for Energy, Green & Environmental Audit Reports from Recognized Body

<https://nesedu.in/wp-content/uploads/2023/12/7.1.3.c.pdf>

Institutional Website Link for Certificates Received from Recognized Agency

<https://nesedu.in/wp-content/uploads/2023/12/7.1.3.d.pdf>

PRINCIPAL

Navneet College of Commerce & Science
Mumbai Central, Mumbai - 400 008.



Navneet Education Society's

NAVNEET COLLEGE
OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

Policy Document on Environment and Energy Usage



Institutional Policy on Environment and Energy Usage

Navneet Education Society's

NAVNEET COLLEGE
OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

Introduction

Navneet College of Commerce and Science acknowledges its responsibility towards environmental conservation and sustainable practices. As an educational institution committed to holistic development, we recognize the pivotal role we play in shaping environmentally conscious individuals. In alignment with this vision, the college introduces the Environmental Sustainability and Energy Usage Policy.

This comprehensive policy encapsulates a series of initiatives aimed at fostering a green, clean, and energy-efficient campus. From eliminating single-use plastics to embracing energy-saving technologies, each aspect of this policy reflects our commitment to creating a campus environment that not only nurtures academic growth but also promotes ecological responsibility.

Navneet College envisions a campus where students, faculty, and staff actively engage in initiatives that contribute to the larger cause of environmental sustainability. By adopting this policy, we strive to cultivate a culture of conscientious living, where every action is a step towards a healthier planet.

Through collaborative efforts, awareness campaigns, and community engagement, Navneet College of Commerce and Science aims to be a beacon of environmental responsibility, setting an example for our students and inspiring positive change beyond the boundaries of our campus. This policy serves as a testament to our dedication to creating a harmonious coexistence between education, nature, and sustainable living.

Policy on Sustainable Environment

Navneet College of Commerce and Science is committed to fostering a sustainable environment that aligns with our educational ethos and social responsibility. This policy outlines our dedication to promoting eco-friendly practices, reducing environmental impact, and nurturing a campus culture that prioritizes sustainability.

Plastic-Free Campus Initiative

Objective:

- Eliminate the use of single-use plastics within the college premises.

Implementation:

- Strict prohibition on single-use plastics.
- Promotion of reusable alternatives.
- Installation of water dispensers to discourage plastic bottle usage.

Monitoring and Compliance:

- Regular inspections and educational programs on plastic reduction.

Clean and Green Campus Initiatives

Objective:

- Create a sustainable and aesthetically pleasing environment.

Implementation:

- Regular cleaning drives.
- Development and maintenance of green spaces.
- Placement of recycling bins for proper waste disposal.

Monitoring and Compliance:

- Monthly audits and collaboration with waste management authorities.

Tree Plantation Drives

Objective:

- Promote biodiversity, combat climate change, and enhance campus aesthetics.

Implementation:

- Annual tree plantation drives involving the campus community.
- Maintenance and care of planted trees.
- Monitoring and Compliance:
- Regular assessments of tree growth and health.

Beach Cleaning Drives

Objective:

- Extend environmental responsibility beyond the campus.

Implementation:

- Regular beach cleaning initiatives involving students and staff.
- Collaboration with local environmental agencies.
- Monitoring and Compliance:
- Documentation of waste collected during beach cleaning drives.

Swachh Bharat Abhiyan Participation

Objective:

- Align with the national movement for a clean and hygienic India.

Implementation:

- Regular cleanliness drives in nearby localities.
- Educational programs on waste segregation.
- Monitoring and Compliance:
- Reporting and documentation of activities carried out under Swachh Bharat Abhiyan.

Policy on Energy Usage

Recognizing the pivotal role of responsible energy consumption in environmental sustainability, Navneet College of Commerce and Science is committed to optimizing energy usage across its campus. This policy outlines our strategies for energy efficiency, conservation, and the incorporation of renewable energy sources.

Use of LED Lights

Objective:

- Reduce energy consumption and promote energy-efficient lighting.

Implementation:

- Replacement of traditional lighting with LED lights.
- Installation of motion sensor lights for optimal energy use.
- Monitoring and Compliance:
- Regular energy audits and awareness campaigns.

Use of Energy-Saving Devices

Objective:

- Optimize energy consumption through the use of energy-efficient electronic devices.

Implementation:

- Procurement of energy-efficient appliances.
- Campus-wide awareness programs on energy conservation.
- Monitoring and Compliance:
- Integration of energy-saving devices into regular energy audits.

Switch Off Lights and Fans Campaign

Objective:

- Encourage responsible energy usage through conscious switching off of lights and fans.

Implementation:

- Campus-wide "Switch Off" campaign with regular reminders.
- Placement of informative posters in classrooms and common areas.

Monitoring and Compliance:

- Student-led monitoring teams and recognition for exemplary practices.

Conclusion

These policies collectively represent our commitment to creating a campus that not only excels in academic pursuits but also leads in environmental stewardship and responsible energy consumption. Regular reviews, assessments, and community engagement will ensure the continual effectiveness of these policies in line with our vision for a sustainable future.



Navneet Education Society's

NAVNEET COLLEGE **OF COMMERCE & SCIENCE**

Recognised under Section 2(f) of the UGC Act, 1956

Reports on Beyond Campus Environmental Promotion Activities



Navneet Education Society's

NAVNEET COLLEGE
OF COMMERCE & SCIENCE

BEYOND THE CAMPUS GREEN INITIATIVES



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2018-19

Report on Costal Cleanup Drive



Date: September 2, 2023

Collaborating Agency: Indian Coast Guard and Indian Navy.

No. of Participants: 38

NSS Unit of the college, in collaboration with the Indian Coast Guard and Indian Navy, organized a Coastal Clean-Up Drive on September 2, 2023, with active participation from 38 students. The event aimed to raise environmental awareness and contribute to the preservation of coastal ecosystems.

Event Overview:

The Coastal Clean-Up Drive commenced with a briefing session, highlighting the importance of environmental conservation and the crucial role coastal areas play in maintaining ecological balance. The participants were made aware of the detrimental effects of pollution on water sources and the subsequent impact on human health and the environment.

Outcome:

The Coastal Clean-Up Drive had a positive impact, removing pollutants and contributing to the overall health of the coastal ecosystem. This successful initiative sets the stage for future environmental conservation activities by Navneet College.

Krishnakumar Sharma,
Programme Officer,
SAI Unit, NSS Unit
Programme Officer

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2018-19

Beach Cleaning Initiative at Girgaon Chowpatty



Date: December 11, 2018

Collaborating Agency: Jay Foundation

No. of Participants: 28

Event Overview:

On December 11, 2018, Beach Cleaning initiative was organized at Girgaon Chowpatty by NSS unit of the college in collaboration with Jay Foundation, with 28 students actively participating in the event. The aim was to address the environmental impact of marine waste and debris on the beach. Students from our institution gathered at Girgaon Chowpatty, displaying high motivation and enthusiasm for the beach cleaning activity. The collaboration with Jay Foundation facilitated the organization of this impactful event. All 28 participating students actively engaged in clearing the beach from marine waste and debris. Their collective efforts were directed towards cleaning a specific portion of Girgaon beach, focusing on eliminating plastic waste that had accumulated along the shore.

Outcome:

The beach cleaning initiative at Girgaon Chowpatty yielded significant results. The enthusiastic participation of students led to the removal of a considerable number of marine debris, contributing to the restoration of the beach ecosystem. The initiative served as a small yet crucial step towards a larger goal of addressing the crisis in our oceans.

Krishnakumar Sharma,
Programme Officer,

SA 11 - NSS Unit

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2018-19

Report on Paper Bag Distribution Initiative



Date: October 20, 2018

No. of Participants: 34

Event Overview:

On October 20, 2018, 34 NSS volunteers of our college participated in a campaign to promote eco-friendly alternatives to plastic bags. The focus was on producing paper bags using recycled newspapers and distributing them within the local market. Volunteers actively engaged in creating paper bags from old newspapers, showcasing their commitment to sustainable practices. Subsequently, the bags were distributed strategically to both shopkeepers and buyers, emphasizing the importance of transitioning away from plastic.

Outcome:

The Paper Bag Distribution initiative yielded positive results in terms of raising awareness and promoting the use of environmentally friendly alternatives. Shopkeepers and buyers alike appreciated the effort and demonstrated a willingness to adopt paper bags, contributing to a reduction in plastic usage.

Krishnakumar Sharma,
Programme Officer,
SA 11 - NSS Unit

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2019-20

Report on Swachh Bharat Abhiyaan: Cleanliness Drive



Date: October 2, 2019

No. of Participants: 22

Activity Overview:

In the pursuit of fostering a cleaner and healthier environment, more than 22 students participated in a ground cleaning initiative on October 2, 2019. The event, organized by NSS unit of the college aimed to promote hygiene, improve health levels in the area, and reduce the spread of sickness.

The ground cleaning initiative, organized by Navneet Education Society, witnessed the enthusiastic participation of over 22 students. The event was a proactive step towards creating a cleaner and more hygienic surrounding.

Outcome:

The cleaning program had a positive impact on the immediate community, instilling a sense of responsibility and community among the participating students. It also contributed to creating awareness about the importance of cleanliness and its direct correlation with overall well-being.

Krishnakumar Sharma,
Programme Officer,
SA 11, NSS Unit
Programme Officer

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2021-22

Cleanliness Drive Report - Cleanliness Drive at Wadala Monorail Station



Date: September 2, 2021

Participants: 38 NSS Volunteers


Collaborating Agency: Indian Railways

Overview:

In a collaborative effort with Indian Railways, 38 NSS volunteers organized a Cleanliness Drive on Wadala Depot Monorail station on September 2, 2021. The initiative aimed at promoting social awareness and a sense of responsibility for cleanliness. The visible efforts of the students served as a positive example for commuters, highlighting the importance of individual responsibility in keeping public spaces clean.

Outcome:

The cleaning drive not only physically improved the cleanliness of the monorail area but also raised awareness among the participants and commuters about the significance of maintaining a hygienic environment.


Programme Officer
Krishnakumar Sharma,
Programme Officer,
SA 11 - NSS Unit


Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2021-22

Paper Conservation Activity Report



Date: 16th February 2022

Participants: 22 NSS Volunteers

On February 16, 2022, 22 NSS volunteers actively participated in a paper conservation activity on campus. The focus was on repurposing unused papers from old journals and long books to create new, useful resources. Volunteers meticulously separated unused papers from old journals and identified suitable long books for repurposing.

A total of 107 new books were created by binding the identified papers into 100-page long books. The newly created books were distributed free of cost among needy students on campus, ensuring that valuable resources were accessible to those who required them.

Outcome:

The paper conservation activity conducted on February 16, 2022, by NSS volunteers successfully achieved its goal of saving paper, repurposing resources, and providing essential materials to those in need. Such initiatives play a crucial role in promoting sustainable practices and a sense of community responsibility on campus.

Krishnakumar Sharma,
Programme Officer,
SA 11 - NSS Unit

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2022-23

Beach Cleaning Drive – Dadar Beach



Date: December 1, 2022-23

Collaborator: Jay Foundation

Participants: 31 Students

A beach cleaning drive at Dadar Chowpatty was organized in collaboration with Jay Foundation in the academic year 2022-23 on December 1. The initiative aimed to sensitize students about cleanliness, actively involve them in the cleanup process, and raise awareness to prevent beach littering.

The activity successfully sensitized students to the importance of cleanliness and their role in preserving the environment. Through active participation, students gained a deeper understanding of the environmental impact of marine waste and the need to keep beaches litter-free. Collaboration with Jay Foundation facilitated a community-driven effort to maintain the cleanliness of Dadar Beach.

Outcome:

The beach cleaning drive at Dadar Chowpatty on December 1, 2022-23, marked a successful endeavor in promoting cleanliness awareness and active environmental participation among 31 students. The collaboration with Jay Foundation strengthened the impact of the initiative, contributing to a cleaner and more environmentally conscious community.

Krishnakumar Sharma,
Programme Officer,
SA 11 NSS Unit

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2022-23

Beach Cleaning Drive – Worli Seaface



Date: January 12, 2022-23

Collaborator: Jay Foundation

Participants: 35 Students

Objective:

A beach cleaning drive was successfully conducted at Worli Seaface in collaboration with Jay Foundation during the academic year 2022-23 on January 12. The initiative aimed to address marine waste and provide students with a hands-on experience in environmental conservation.

Event Highlights:

Thirty-five students actively engaged in the beach cleaning drive, demonstrating their commitment to preserving the local environment. Students worked collectively to clear Worli Seaface from marine waste, contributing to the overall cleanliness of the beach. The clean-up experience had a profound impact on the students, offering them a new perspective on environmental issues and instilling values that will shape their future actions.

Outcome:

The initiative aligns with the broader goal of nurturing responsible citizens who actively contribute to the well-being of their local environment.

Krishnakumar Sharma,
Programme Officer
SA 11 - NSS Unit

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2022-23

Cleanliness Drive at Nana Nani Park



Date: December 7, 2022

Participants: 32 Students

On December 7, 2022-23, 32 students undertook a Garden Cleaning initiative at Nana Nani Park, Dadar, with the primary objective of transforming the area by clearing stones and making it conducive for the plantation of various plants.

Cleaning Activities:

Volunteers actively engaged in the removal of stones, clearing the garden space for further development and greenery. The thorough cleaning created a suitable environment for the initiation of plantation, enhancing the aesthetic and ecological value of Nana Nani Park.

Outcome:

The commitment of the volunteers not only enhanced the visual appeal of the park but also contributed to the broader goal of fostering greenery and sustainable practices within the community.

Krishnakumar Sharma,
Programme Officer,
SA 11 - NSS Unit

Programme Officer

Principal



Navneet Education Society's

NAVNEET COLLEGE OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

A.Y: 2022-23

Waste Collection Drive



Date: November 8, 2022

Participants: 28 Students

On November 8, 2022, a Waste Collection Drive was organized, engaging 28 students to actively participate in the cleanup of nearby areas, aiming to promote cleanliness and environmental responsibility.

Students enthusiastically participated in the Waste Collection Drive, demonstrating a commitment to improving the cleanliness of their surroundings. The drive focused on collecting waste in the nearby areas, addressing litter, and promoting a cleaner environment for the community. The initiative aimed to instill a sense of environmental responsibility among the participants, fostering a commitment to keeping local areas clean.

Outcome:

The Waste Collection Drive witnessed the active involvement of 28 students, marking a collective effort to contribute to local cleanliness and environmental responsibility. Such initiatives play a crucial role in fostering a sense of community engagement and instilling values of cleanliness and responsibility among the participants.

Krishnakumar Sharma
Programme Officer
Programme Officer,
SA 11 - NSS Unit

Principal



Navneet Education Society's

NAVNEET COLLEGE
OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

Reports of Energy, Green & Environmental Audit from the Government Recognized Body

Report

On

Green, Energy & Environment Audit

For

**Navneet Education Society's
Navneet College of Commerce & Science
Mumbai 400008**

Prepared

By

**Senergy Consultants Pvt Ltd
Mumbai 400 088**

November – 2023

Helping You to Conserve Energy

Contents

Sr. No	Description	Page
I	Introduction	3
II	Executive Summary	4
III	Electrical System	6
IV	Environmental System	9
V	Water Management	11
VI	Waste Generation & Management	13
VII	Infrastructure & Safety	14
VIII	Green Culture	17
IX	Renewable Energy	22

I Introduction

Green, Energy & Environment Audit was undertaken at Navneet Education Society's Navneet College of Commerce & Science, Gilderlane Municipal School Building, Belasis Bridge, Opp. Railway Station, Mumbai Central, Mumbai - 400 008 during the month of November 2023.

The organization is very keen to promote green culture wherever possible, as a commitment towards better environment and conservation of energy. A lot of efforts have already been put up to bring down the carbon footprint. To further optimize consumption and identify saving opportunities, M/s Senergy Consultants was assigned to carry out Green & Environment Audit of the premises.

This Audit Report presents the analysis of the data collected, observations made at the facility and is governed by the objectives, scope of work, methodology etc. discussed in the ensuing paragraphs.

Team:

The team members of the audit study.

- Mr. Ravindra Datar
- Mr. Nitesh Kharche
- Mr. Tushar Kamble

Acknowledgment:

We wish to express our gratitude towards Dr. Harsha Badkar for having given us the opportunity for conducting the study and the support provided during the study.

Helping You to Conserve Energy

II

Executive Summary

The premises were evaluated against the various criteria laid down by the National Assessment and Accreditation Council (NAAC). The major observations are.

Air Quality & Ventilation:

- The classrooms and other area are well ventilated to ensure proper air quality.
- The fans are appropriately installed to ensure proper air circulation
- The indoor as well as outdoor plants have also been provided to improve the environment.
- The air conditioned rooms are provided with proper ventilation and fresh air.

Lighting System:

- The usage of natural light is optimized through well designed structure and windows.
- It is suggested to automate switching of lamps in the common areas and washrooms with sensor based control.
- Most of the light fitting are provided with high efficiency LED lamps. The remaining lamps are being replaced with LED lamps.

Green Campus Initiative:

- The movement of vehicle inside the campus is restricted with vehicles of Special Dignitaries and VIP Guests are allowed to enter the campus.
- Pedestrian friendly pathways have been constructed for easy movement inside the campus.
- There is a completely ban plastic usage inside the campus.
- The campus is surrounded with a lot of greenery, trees, and proper landscaping.

Environment & Energy Initiative:

- The college has formed internal committees and student groups / clubs for promoting environmental and conservation activities.
- Green Consumerism and Green Entrepreneurship workshops are conducted to create awareness related to the environment.
- Various Tree Plantation programs have been carried out within and outside the campus.
- Various Beach Clean-up drives were undertaken by students and staff members.

Water Quality & Conservation:

- The water is supplied by the Municipal Corporation, which is a common practice in Mumbai, Thane & Navi Mumbai.
- Water purifiers & coolers are provided at convenient locations.
- The distribution network and piping are more or less satisfactory and adequate.
- The toilets are provided with water efficient (low usage) fittings.
- The rainwater harvesting pit is provided for ground water recharge.

Waste Management:

- The effluent water is discharged in the common municipal drain, which is a common practice in and around Mumbai Thane & Navi Mumbai.
- The organic waste is segregated and disposed through municipal system; which may be converted in to manure by installing composting pits / waste collector machine.
- The electronic gadgets / waste is either donated if useful or handed over to appropriate waste collectors.
- The general solid waste is disposed through municipal corporation.

Green IT culture:

- The Energy efficient computers and laptops have been procured.
- The electronic communication is encouraged to minimize usage of papers.
- Most of the papers are reused for doubled sided printing to further minimize usage of paper.

Helping You to Conserve Energy

Green, Energy and Environment Audit Report
Navneet College of Commerce & Science

Air Conditioning System:

- The Air Conditioners are operated as required with manual control. The operation is minimal consequently automation may not be economical.
- The room temperature is maintained at 24 to 25 °C, which is well within the recommended values.
- The Air Conditioners are serviced regularly and properly maintained.
- Most of the Air Conditioners units are energy efficient with star rating of 3 and above.
- The air conditioned space is properly sealed to prevent air ingress / cold air loss.

Infrastructure usage:

- Ramps are provided on the ground floor to address the needs of differently abled persons.
- The on-campus movement is distributed with multiple entrances as well as staircases.
- The fire extinguishers are provided at key areas.
- The college has initiated appropriate measures to meet the safety requirement.
- The draining system for washrooms is efficient and effective.
- There were no seepages observed in the building premises.

Renewable Energy:

- The possibility of installing Solar Photovoltaic System with NET metering may be assessed to meet part of the electricity consumption.
- The quantity of plate waste (organic waste with higher starch contents) is negligible, consequently, there is no potential for biogas generation.

Helping You to Conserve Energy

III Electrical System

Gadget List

Lamps:

Location	LED Tube Lights 20 W
Ground Floor	
Hall	27
Male Washroom	2
Female Washroom	2
Ground Floor – Passage	
Passage No. 1	3
Passage No. 2	3
First Floor	
Principal / Administrative Office	9
Block No. 1	7
Block No. 2	7
Information Technology Lab	21
Male Washroom	2
Water Room	2
Block No. 3	7
Block No. 4	7
Block No. 5	7
Block No. 6	7
Block No. 7	7
Block No. 8	7
Block No. 9	7
Block No. 10	7
Girls Common Room	2
Female Washroom	2
Staff Room	2
Staff Washroom	2
First Floor - Passage	
Passage No. 3	11
Passage No. 4	4
Passage No. 5	
Second Floor	
Block No. 11 (Room No. 52)	6
Psychology Lab	
Male Washroom	2
Female Washroom	2
Water Room	2
Library and Reading Room	9
Block No. 12	6
Block No. 13	
Second Floor - Passage	
Passage No. 6	5
Passage No. 7	3

Helping You to Conserve Energy

Green, Energy and Environment Audit Report
Navneet College of Commerce & Science**Ceiling Fans:**

Location	Quantity (Nos.)
Ground Floor	
Hall	14
First Floor	
Principal / Administrative Office	4
Block No. 1	4
Block No. 2	4
Information Technology Lab	4
Block No. 3	4
Block No. 4	4
Block No. 5	4
Block No. 6	4
Block No. 7	4
Block No. 8	4
Block No. 9	4
Block No. 10	4
Staff Room	1
Second Floor	
Block No. 11 (Room No. 52)	4
Library and Reading Room	6
Block No. 12	4

Air Conditioning Units:

Location	Type	Capacity	Quantity (Nos.)
Office	Split	1.5	3
IT Lab	Split	1.5	2
Staff Room	Split	1.5	1

Computers:

Location	Quantity (Nos.)
Principal / Administrative Office	11
Information Technology Lab	48
Staff Room	2
Library and Reading Room	2

Observations & Suggestions:

- Most of the light fitting are provided with high efficiency LED lamps. The remaining lamps are being replaced with LED lamps.
- The fans are of standard efficiency; which may be replaced with high efficiency fans with BLDC motor.
- The Air Conditioning Units are with star rating of 3 and above, which are intrinsically operate at high energy efficiency.

Helping You to Conserve Energy

Green, Energy and Environment Audit Report
Navneet College of Commerce & Science

- The Air Conditioners are operated as required with manual control. The operation is minimal consequently automation may not be economical.
- The temperature is maintained at 24 to 25 °C for air conditioning spaces, which is within the recommended values.
- The rooms are well ventilated and provided with fans at appropriate location for proper air circulation.
- The gadgets are services properly and maintained in good condition.

Electricity Bills:

Consumer Name: Navneet Society	Service Provider: The Brihanmumbai Electric Supply & Transport Undertaking (BEST)
Tariff Category: LT II A	
Meter No: N57980	Consumer No. 815-161-001

Description	Unit	Jun-23	Aug-23	Sep-23	Oct-23	Average
Energy Consumption	KWH	1135	1566	1781	1631	1528
Bill	Rs	12571	17140	19419	17829	16740
Cost	Rs/KWH	11.08	10.95	10.90	10.93	10.95

Observation & Suggestions:

- The power cost is within the normal range.

Helping You to Conserve Energy

IV Environmental System

Ventilation & Air Quality:

- The air ventilation is adequate.
- Several indoor & outdoor plants have been installed to improve air quality.



- It has been a general practice to switch off the fans & lights in an unoccupied area.
- The air conditioned rooms are provided with proper ventilation and fresh air.



Helping You to Conserve Energy



Helping You to Conserve Energy

V Water Management

Water Source:

The water supplied by the municipal corporation is used for drinking and other requirements. The incoming water from the municipal corporation is metered.

Observation & Suggestions:

- The cost as well as consumption is within the normal range.

Water Purifiers:



Sr No	Location	Quantity (No.)	
		Water Cooler	Water Filter
1	First Floor	1	1
2	Second Floor	0	1

The water purifiers are provided at convenient locations.

Water Distribution System:

The distribution network and piping are more or less satisfactory and adequate.

Helping You to Conserve Energy

Green, Energy and Environment Audit Report
Navneet College of Commerce & Science

Rainwater Harvesting:

The rainwater is fed to the rainwater harvesting pit for ground water recharge.



VI Waste Generation & Management

Solid Waste:

- The organic waste is segregated in the college premises.
- The organic waste and other waste are separately disposed through Municipal system.
- There is no generation of hazardous or biomedical waste in the premises.
- Each Floor is provided is with segregated dustbin for Recyclable waste and Non-Recyclable Waste



- The electronic gadgets with residual life are donated while the electronic waste is properly segregated and handed over to appropriate scrap collector.

Sewage & Wastewater:

- The sewage is disposed through municipal system.
- There is no generation of harmful or hazardous effluent.
- The sewage treatment plant is not required due to minimal generation of waste.
- The municipal corporation charges cess for treating and disposing waste water.

Helping You to Conserve Energy

VII Infrastructure & Safety



Observations:

- The premises are provided with multiple staircases with necessary entrances to ensure quick and effective movement in normal as well as emergency conditions.



- The movement of vehicle inside the campus is restricted with vehicles of Special Dignitaries and VIP Guests are allowed to enter the campus.
- There are pedestrian friendly pathways for in-campus movement.

Helping You to Conserve Energy

**Green, Energy and Environment Audit Report
Navneet College of Commerce & Science**

- There is restriction on the usage of plastic, which may be extended to completely ban plastic usage inside the campus.
- There is adequate parking space for vehicles/four wheelers. However, almost all the students and many of the faculty members avail public transport system which is very convenient due to proximity to railway station and bus services.
- Ramp & wheelchair is available for differently abled student.



Draining system:

- The drains from the washrooms are connected to the municipal drainage, which is a common practice in the colleges in and around Mumbai.

Seepage in the building:

- The premise was visually inspected for seepages. No seepages were observed in any of the places.

Helping You to Conserve Energy

**Green, Energy and Environment Audit Report
Navneet College of Commerce & Science**

Firefighting & fire escape system:



Sr No	Location	Type	Quantity
1	First Floor	Powder	2
2	Second Floor	Powder	1

- There are efficient fire extinguishers in the premises, which are checked / refilled as per the stipulated frequency.
- The premise is provided with multiple staircases with requisite entrances to ensure quick and effective movement in emergency conditions.

Parking space:



- There is adequate parking space for vehicles/four wheelers. However, almost all the students and many of the faculty members avail public transport system which is very convenient due to proximity to railway station and bus services.

Helping You to Conserve Energy

VIII Green Culture



Computers:

Location	Quantity (Nos.)
Principal / Administrative Office	11
Information Technology Lab	48
Staff Room	2
Library and Reading Room	2

Observations & Suggestions:

- The LED / LCD monitors & Laptops has been procured, which are energy efficient.
- These monitors are not only energy efficient but also generate minimal heat and cut down on air conditioning load.
- The electronic communication is encouraged to minimize usage of papers.
- Most of the papers are reused for doubled sided printing to further minimize usage of paper.

The following steps may be initiated to further enhance efficiency of the systems.

1. An efficient power management system may be incorporated to
 - a. Switch off the display if not in use.
 - b. Put the computer in Sleep mode / switching off the machines, if not used for prolonged period.
2. Optimize brightness of the screen.
3. Discourage use of screen savers, which has similar power consumption.

Paper-less communication:

The major internal as well as external communication is through electronic medium.

Re-using one sided paper for printing:

It was observed that two side printing / printing on the back side of used paper in more than 80% of the cases.

Helping You to Conserve Energy

NSS Environmental Conservation Activities conducted by students & staff members:



Helping You to Conserve Energy



Helping You to Conserve Energy



Helping You to Conserve Energy

Green, Energy and Environment Audit Report
Navneet College of Commerce & Science



Helping You to Conserve Energy

IX Renewable Energy

Solar Photovoltaic:

It is suggested to install rooftop solar panels with net metering for captive usage.

Solar Thermal:

There is no application of solar thermal system and does not find attractive in this case.

Biogas Plant:

There is no possibility of installing biogas plant for cooking as the quantity of plate waste is negligible.



Navneet Education Society's

NAVNEET COLLEGE
OF COMMERCE & SCIENCE

Recognised under Section 2(f) of the UGC Act, 1956

**Certificates from the External Accredited
Auditing Agency (recognised by the Government)**

Certificate

This is to certify that **Green Audit** was carried out at Navneet Education Society's Navneet College of Commerce & Science, Gilderlane Municipal School Building, Belasis Bridge, Opp. Railway Station, Mumbai Central, Mumbai - 400 008 during the month of November 2023.

The scope, coverage, findings and recommendations are submitted vide our report SCPL-PR-916-081123 dated November 08, 2023.

For **SENERGY CONSULTANTS PVT LTD**



Tushar Kamble
(Project coordinator)

Certificate

This is to certify that **Energy Audit** was carried out at Navneet Education Society's Navneet College of Commerce & Science, Gilderlane Municipal School Building, Belasis Bridge, Opp. Railway Station, Mumbai Central, Mumbai - 400 008 during the month of November 2023.

The scope, coverage, findings and recommendations are submitted vide our report SCPL-PR-916-081123 dated November 08, 2023.

For **SENERGY CONSULTANTS PVT LTD**



Tushar Kamble
(Project coordinator)

Certificate

This is to certify that **Environment Audit** was carried out at Navneet Education Society's Navneet College of Commerce & Science, Gilderlane Municipal School Building, Belasis Bridge, Opp. Railway Station, Mumbai Central, Mumbai - 400 008 during the month of November 2023.

The scope, coverage, findings and recommendations are submitted vide our report SCPL-PR-916-081123 dated November 08, 2023.

For **SENERGY CONSULTANTS PVT LTD**



Tushar Kamble
(Project coordinator)