Electrical Audit

2019-2020

PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

SEAL

Introduction:

Modern College of Computer Science & I.T., Aurangabad, is one of Maharashtra's esteemed institutions, established in 2010 with a mission to provide quality education through hard work, dedication, and devotion. Celebrating its 12th anniversary in 2022, the college has distinguished itself in the realms of education dissemination and expansion. Located at Sahjeevan Colony, Savarkar Chowk, Aurangabad, the college boasts a modern campus that recently hosted a visit from Dr. Babasaheb Ambedkar Marathwada University, marking a significant moment of pride. The institution is renowned for its excellent faculty, comprising highly qualified and dedicated educators, supported by good infrastructure, disciplined administration, and a consistent track record of outstanding academic results. The college offers two key programs: Bachelor of Computer Applications (BCA) and Bachelor of Science (B.Sc.).

Modern College is committed to implementing innovative and healthy practices, such as an informal Alumni Association and a Career Guidance and Counselling Cell. In response to the NAAC Circular on green auditing, the college's management initiated an external green audit, led by Dr. C.S. Padmavat, the Campus Director of Nutan Mahavidyalaya, Selu, Parbhani, and a team of green auditors.

The Incubation Center at Modern College is registered under the Shop Act license and certified as a Green Audit agency. The Green Audit evaluation, conducted by Dr. P.R. Kanthale, Head of Botany and Microbiology, has led to the issuance of the Green Audit Certificate. The certificate, signed by Dr. Nirmala Padmavat, Co-founder and Coordinator of the Incubation Center, and Dr. P.R. Kanthale, confirms that Modern College has successfully undergone an environmental audit, affirming its commitment to sustainable practices and environmental responsibility.

Objectives:

The purpose of present green audit is to identify, quantify, describe and prioritize framework of Environmental Sustainability.

I/C Principal
Modern College of Computer Science & IT

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- To ascertain how much electricity is used on campus.

- To increase the amount of renewable energy on campus.

- To determine if Modern College initiatives have contributed to a decrease in the carbon footprint.

- To determine if the institution's extracurricular activities promote the collection, recovery, reuse, and recycling of solid wastes and other environmentally hazardous materials.

Team Members:

Here are the individuals that make up the green audit team:

Sr.No	Name	Designation
1.	Dr. Asmita Sharad Salve	Principal
2.	Prof.Jyoti Sunil More	IQAC Coordinator
3.	Dr.Sonal Ashok Ubale	Head of the deapartment of BCA, Aurangabad.
4.	Prof.Pradnya Shashank Sonawane	Head of the deapartment of BCS, Aurangabad.
5.	Harshad Waghmare	Assistant Professor

Energy Consuption in the Campus:

Sr.No	Meter No.	Place in the campus
1.	05392421894	Near Computer Lab

The college has an electricity meter. The following basic details:

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Sr No.	Name of Particulars	Total No
1.	Total No. of Electrical fans	32
2.	Exhaust fans	06
3.	Air Conditioner	06
4.	Total No. of LED lights	76
5.	Total No. of LED Tubelights	07
6.	Total No. of CFI. lam	04
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15.	Water purifier	1
16.	Colour Printer + Scanner	1
17.	Water Motor	2
18.	R.O Motor	1

Average Electricity Consumption

Average Electricity Consumption/Month=**1343KW Unit/Month**

REDUCTIVE CARBON FOOTPRINTS

Historically, a person, thing, organization, or product's "carbon footprint" has been defined as the total amount of greenhouse gas emissions, represented as carbon dioxide equivalent.

1. Installing a lighting system that uses less energy

By switching to energy-efficient CFL/LED lamps and tube lighting systems from high-energy-consuming electric bulbs, the institution has indirectly decreased CO_2 emissions. It is appropriate

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to compare the units of electricity consumed by CFL and incandescent lamps in order to comprehend the reduction in carbon emissions.

The following are some brief reasons for the previous statement.

Number of incandescent lights used in total before to 50

A 60-watt incandescent lamp's average energy usage

60X50-3000 watts of energy are used by a lamp in an hour. For example, 50 lamps using 15 kW of energy every hour for five hours a day equates to 15 units.

Given 300 days in a year, 15 kW hour times 300–4500 kW hour per year is considered.

50 bulbs at a 4500 kW hour or 4500 units of energy usage for 300 days a year.

50 CFL bulbs are swapped out for 50 incandescent ones.

The average energy used by a 15-watt CFL light

The CFL uses 15X50-750 Watts of energy every hour.

50 CFI's daily energy use for five hours is 750 X 5, or 3.750 kW hours.

1125 kW hours, or 1125 units, of energy used by 50 CFLs for 300 days a year.

3375 units or 4500-1125 kW hours of energy saved with CFL during a 300-day period every year

LED Lamps in the campus

The college has installed 76 LED Lights and 7 Tubelights in the campus Below is a discussion about reducing carbon footprint and power use.

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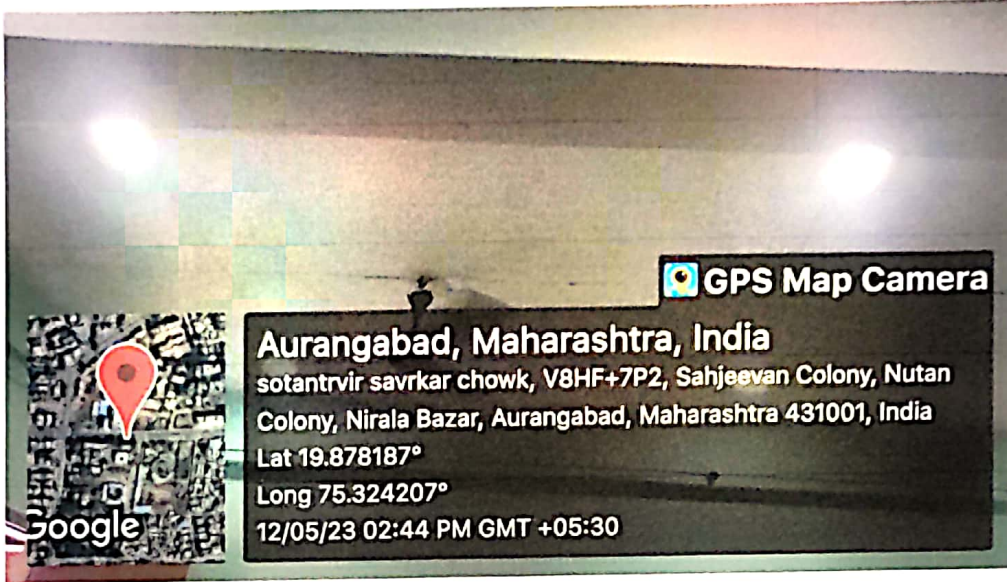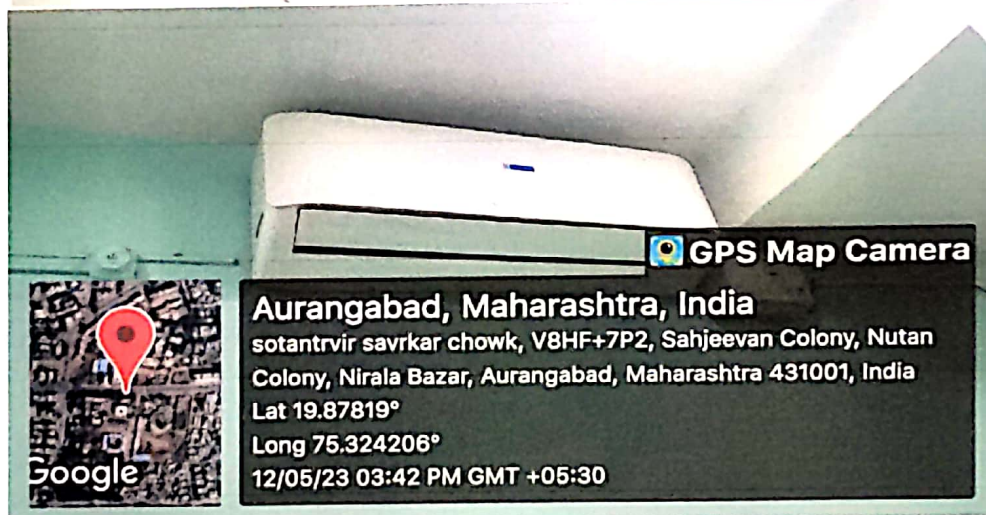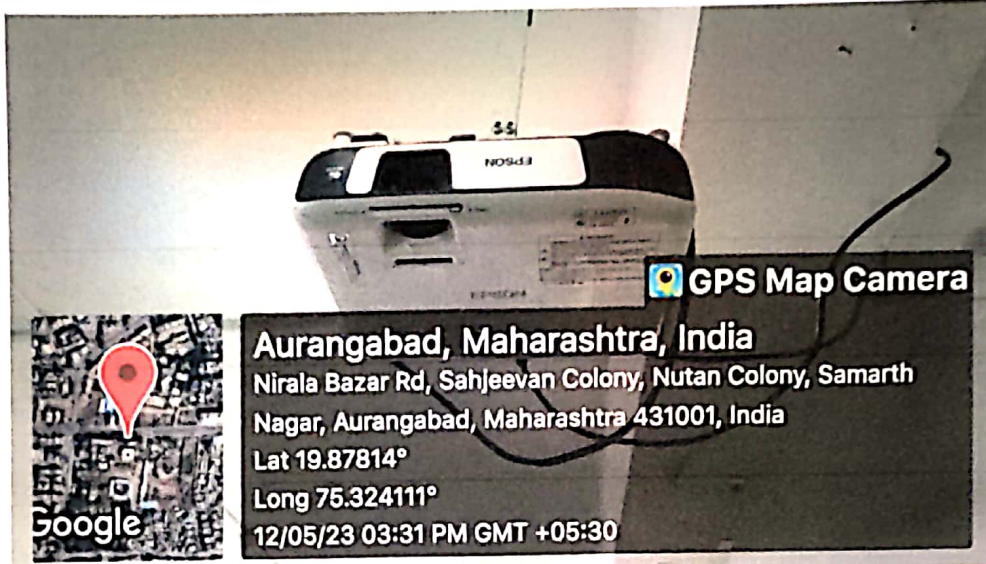Modern College of Computer Science & IT.,
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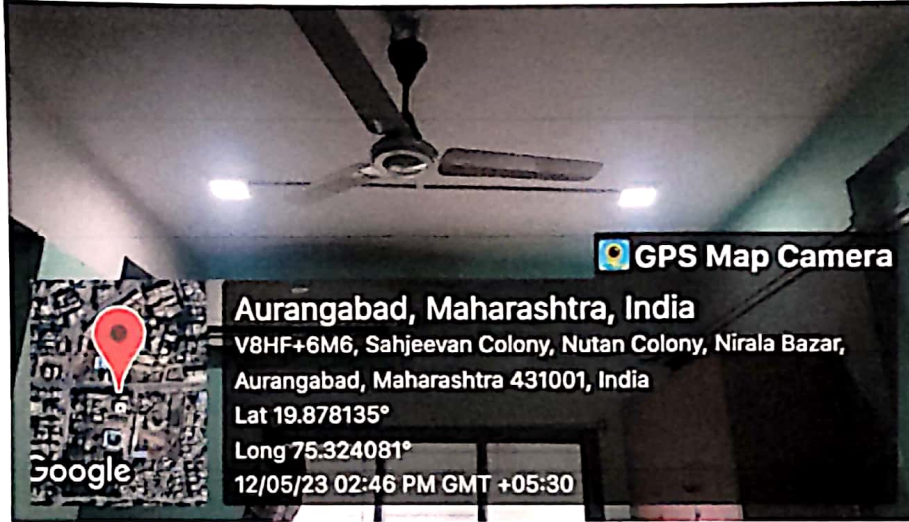Aurangabad.

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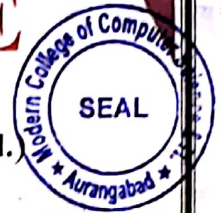Modern College of Computer Science & IT.,
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Average Electricity Consumption

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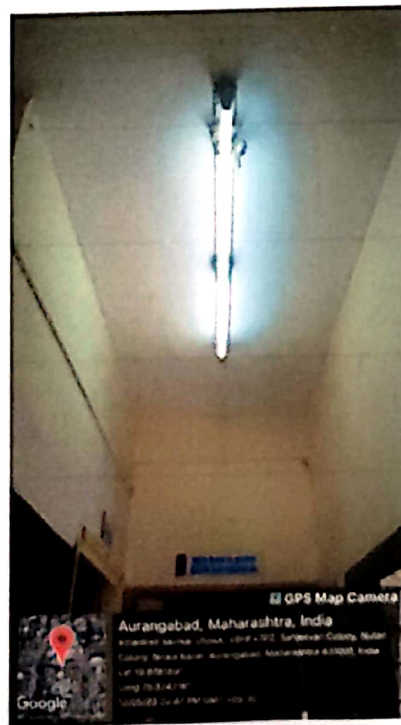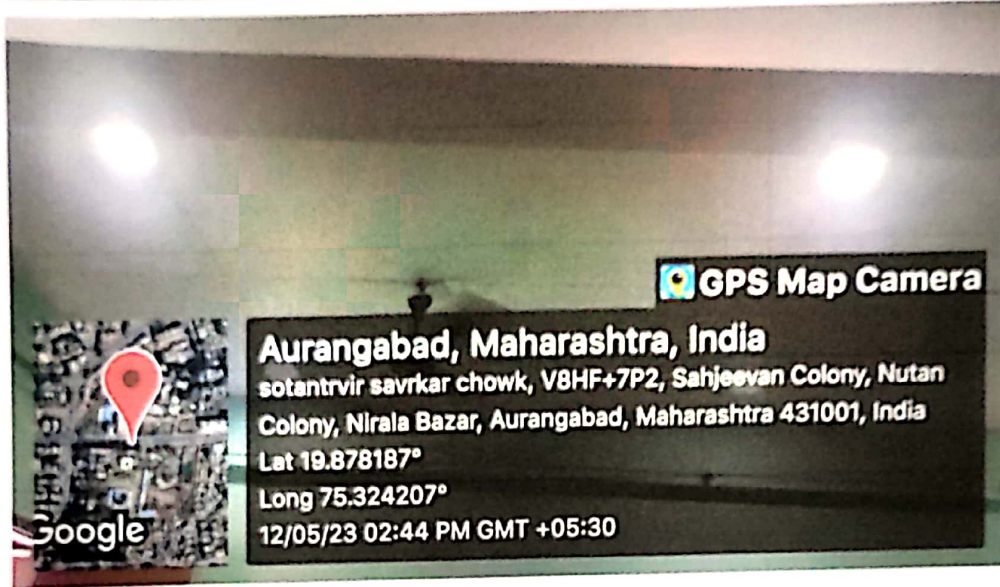Modern College of Computer Science & I.T.
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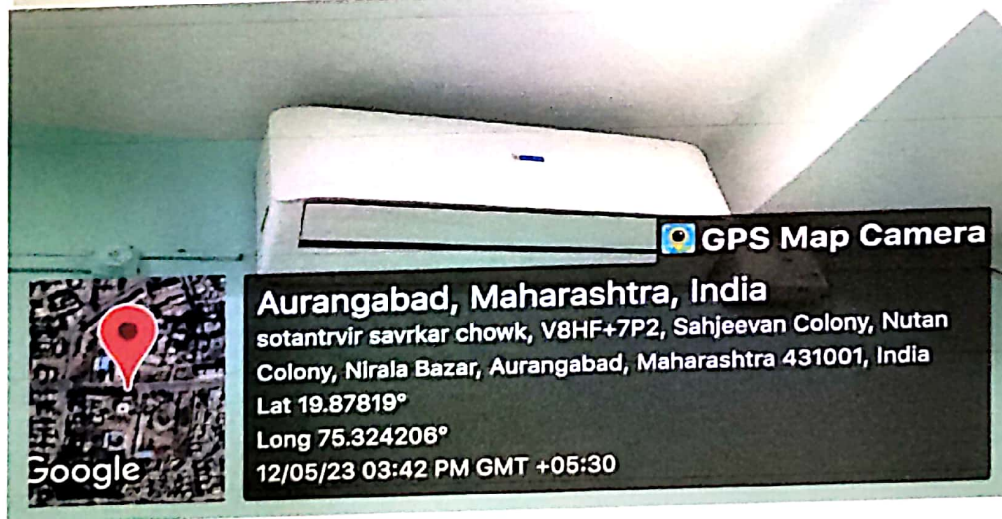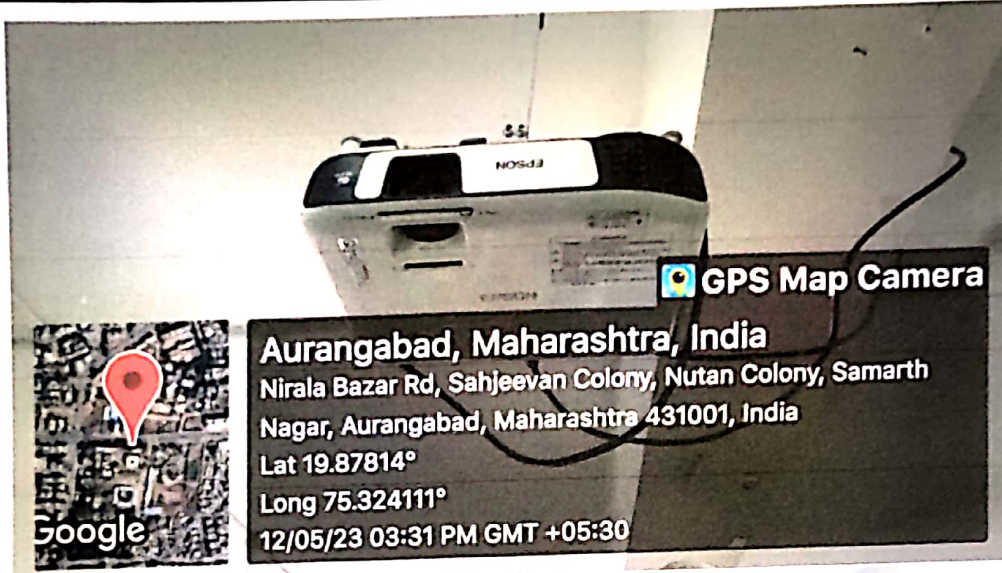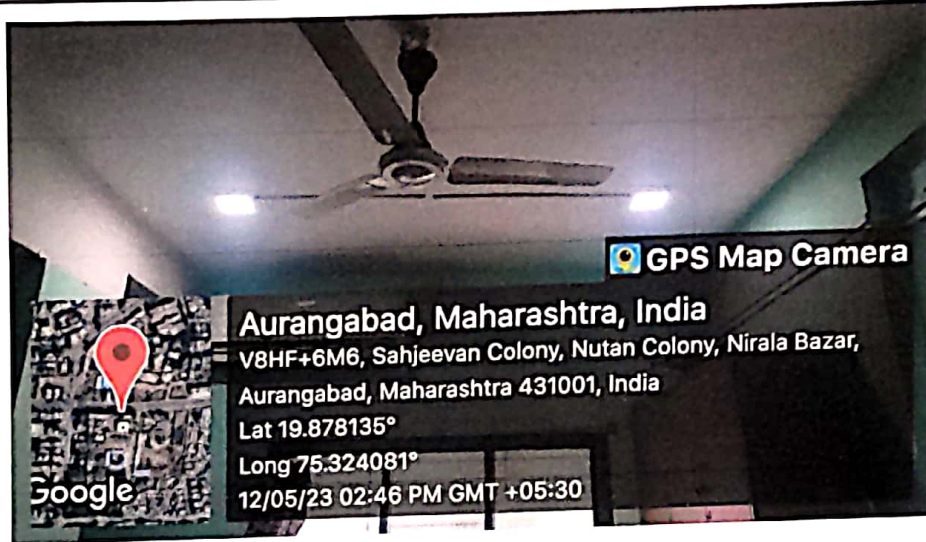Modern College of Computer Science & IT.,
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Average Electricity Consumption/Month=**1534 KW Unit/Month**

Average Electricity Consumption

The average electricity consumption per month is 1273 KW units.

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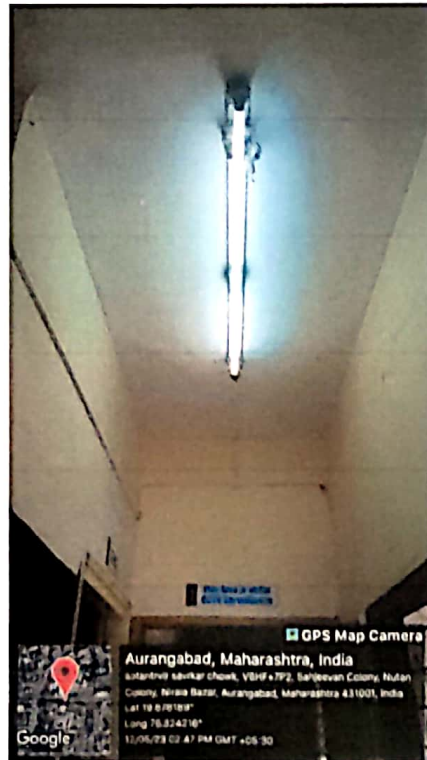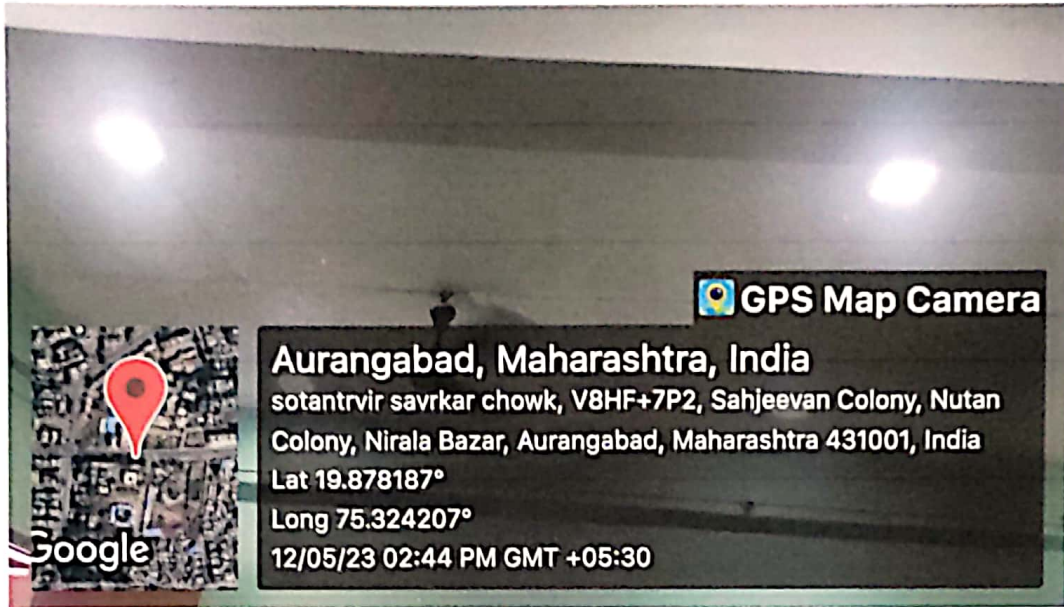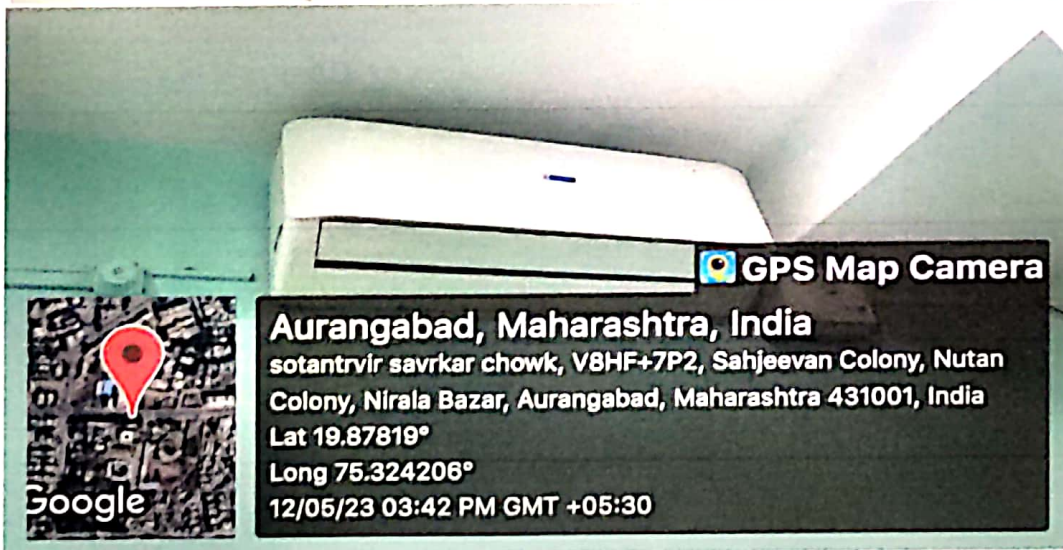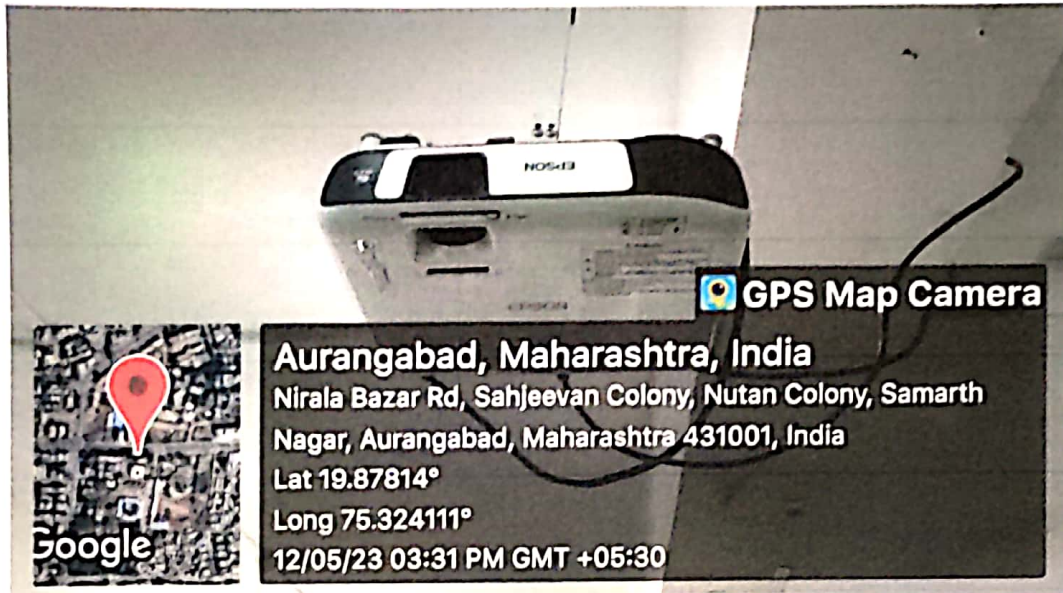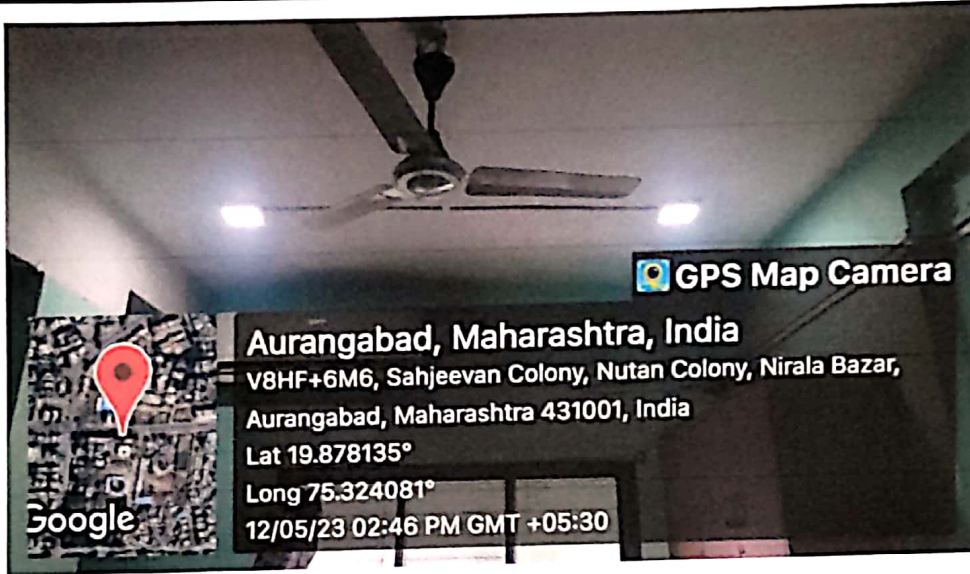Modern College of Computer Science & IT.,
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Aurangabad, Maharashtra 431001, India
Lat 19.878135°
Long 75.324081°
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I/C Principal
Modern College of Computer Science & IT.,
Aurangabad.

Electrical Audit

2022-2023

Introduction:

Modern College of Computer Science & I.T., Aurangabad, is one of Maharashtra's esteemed institutions, established in 2010 with a mission to provide quality education through hard work, dedication, and devotion. Celebrating its 12th anniversary in 2022, the college has distinguished itself in the realms of education dissemination and expansion. Located at Sahjeevan Colony, Savarkar Chowk, Aurangabad, the college boasts a modern campus that recently hosted a visit from Dr. Babasaheb Ambedkar Marathwada University, marking a significant moment of pride. The institution is renowned for its excellent faculty, comprising highly qualified and dedicated educators, supported by good infrastructure, disciplined administration, and a consistent track record of outstanding academic results. The college offers two key programs: Bachelor of Computer Applications (BCA) and Bachelor of Science (B.Sc.).

Modern College is committed to implementing innovative and healthy practices, such as an informal Alumni Association and a Career Guidance and Counselling Cell. In response to the NAAC Circular on green auditing, the college's management initiated an external green audit, led by Dr. C.S. Padmavat, the Campus Director of Nutan Mahavidyalaya, Selu, Parbhani, and a team of green auditors.

The Incubation Center at Modern College is registered under the Shop Act license and certified as a Green Audit agency. The Green Audit evaluation, conducted by Dr. P.R. Kanthale, Head of Botany and Microbiology, has led to the issuance of the Green Audit Certificate. The certificate, signed by Dr. Nirmala Padmavat, Co-founder and Coordinator of the Incubation Center, and Dr. P.R. Kanthale, confirms that Modern College has successfully undergone an environmental audit, affirming its commitment to sustainable practices and environmental responsibility.

Objectives:

The purpose of present green audit is to identify, quantify, describe and prioritize framework of Environmental Sustainability.

- To ascertain how much electricity is used on campus.

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Modern College of Computer Science & IT.,
Aurangabad.

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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

- To increase the amount of renewable energy on campus.

- To determine if Modern College initiatives have contributed to a decrease in the carbon footprint.

- To determine if the institution's extracurricular activities promote the collection, recovery, reuse, and recycling of solid wastes and other environmentally hazardous materials.

Team Members:

Here are the individuals that make up the green audit team:

Sr.No	Name	Designation
1.	Dr. Asmita Salve	Principal
2.	Dr.Pradnya Sonawane	Head of the deapartment of BCS, Aurangabad.
3.	Dr.Sonal Ubale	Head of the deapartment of BCA, Aurangabad.
4.	Prof.Jyoti More	Assistant Professor
5.	Harshad Waghmare	Assistant Professor

Energy Consuption in the Campus:

Sr.No	Meter No.	Place in the campus
1.	05392421894	Near Computer Lab

The college has an electricity meter. The following basic details:

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14.	Cctv camera	3
15.	Water purifier	1
16.	Colour Printer + Scanner	1
17.	Water Motor	2
18.	R.O Motor	1

Average Electricity Consumption

Average Electricity Consumption/Month=**1154 KW Unit/Month**

REDUCTIVE CARBON FOOTPRINTS

Historically, a person, thing, organization, or product's "carbon footprint" has been defined as the total amount of greenhouse gas emissions, represented as carbon dioxide equivalent.

1. Installing a lighting system that uses less energy

By switching to energy-efficient CFL/LED lamps and tube lighting systems from high-energy-consuming electric bulbs, the institution has indirectly decreased CO2 emissions. It is appropriate to compare the units of electricity consumed by CFL and incandescent lamps in order to

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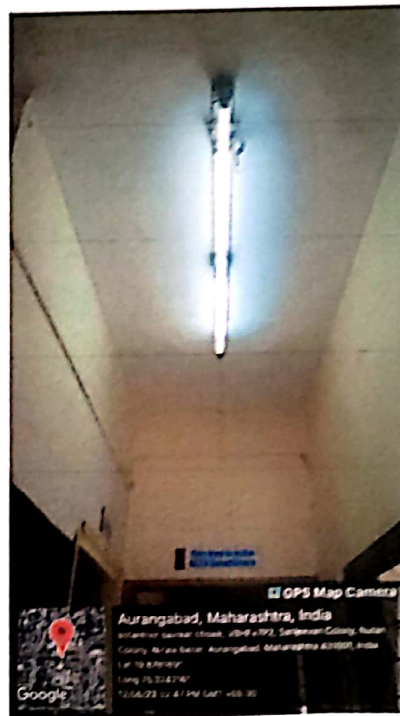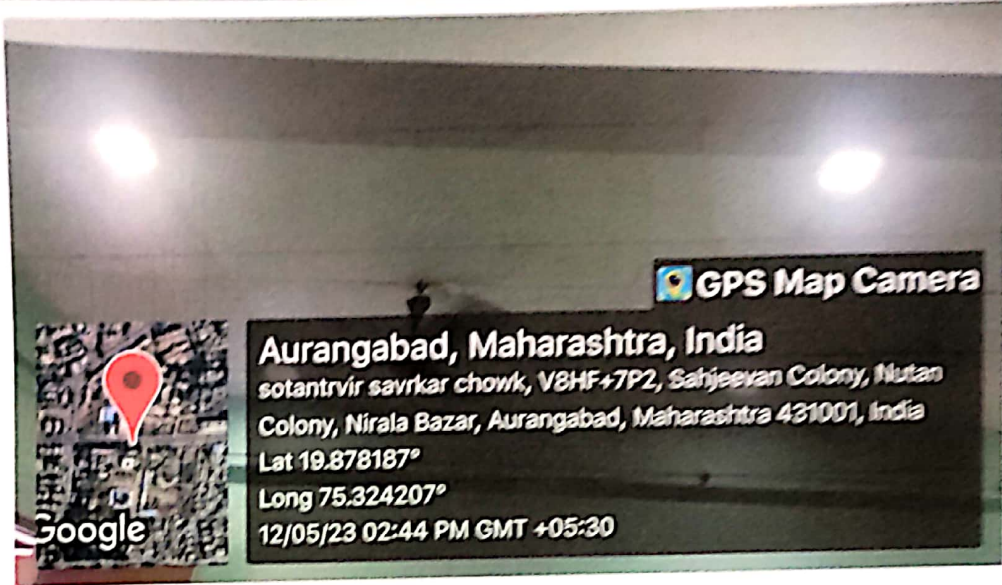Modern College of Computer Science & IT.,
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Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

comprehend the reduction in carbon emissions.

The following are some brief reasons for the previous statement.

Number of incandescent lights used in total before to 50

A 60-watt incandescent lamp's average energy usage

60X50-3000 watts of energy are used by a lamp in an hour. For example, 50 lamps using 15 kW of energy every hour for five hours a day equates to 15 units.

Given 300 days in a year, 15 kW hour times 300–4500 kW hour per year is considered.

50 bulbs at a 4500 kW hour or 4500 units of energy usage for 300 days a year.

50 CFL bulbs are swapped out for 50 incandescent ones.

The average energy used by a 15-watt CFL light

The CFL uses 15X50-750 Watts of energy every hour.

50 CFI's daily energy use for five hours is 750 X 5, or 3.750 kW hours.

1125 kW hours, or 1125 units, of energy used by 50 CFLs for 300 days a year.

3375 units or 4500-1125 kW hours of energy saved with CFL during a 300-day period every year

LED Lamps in the campus

The college has installed 76 LED Lights and 7 Tubelights in the campus Below is a discussion about reducing carbon footprint and power use.

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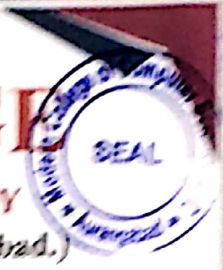Modern College of Computer Science & IT.,
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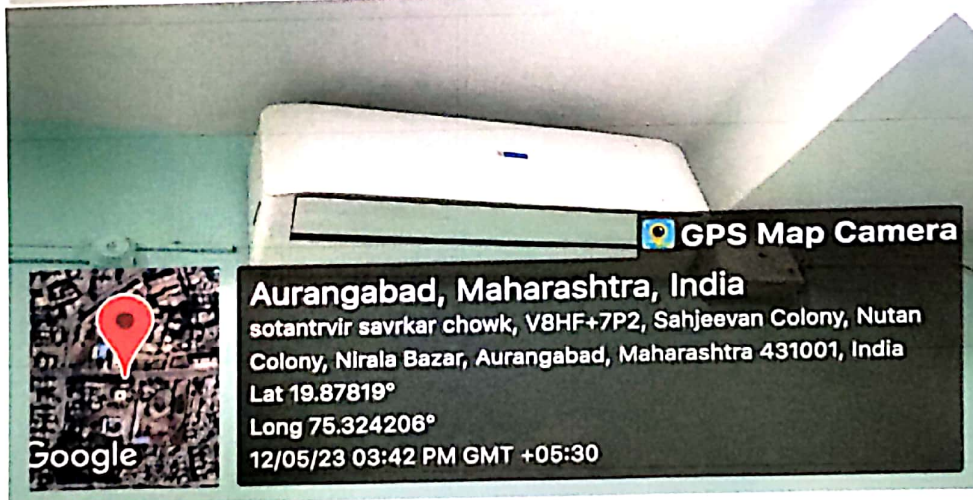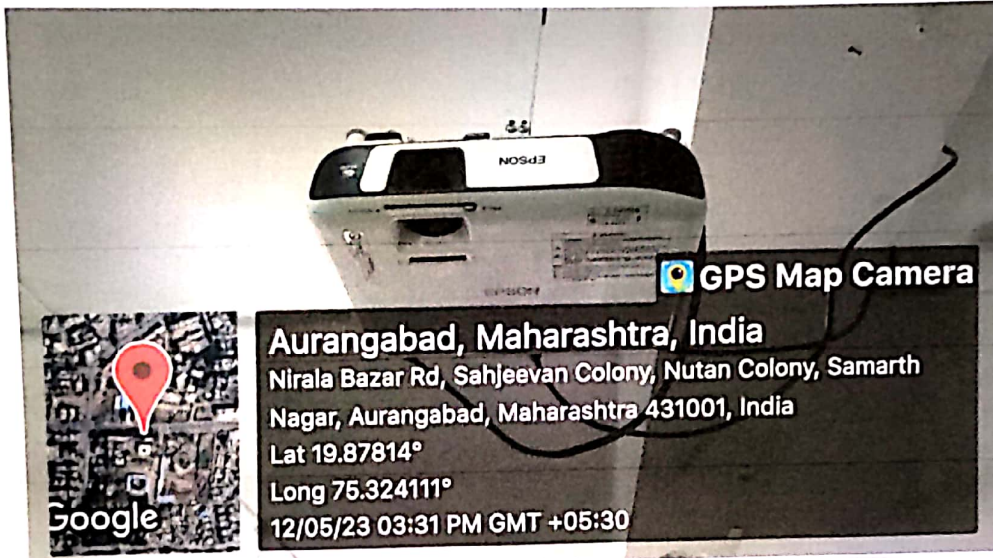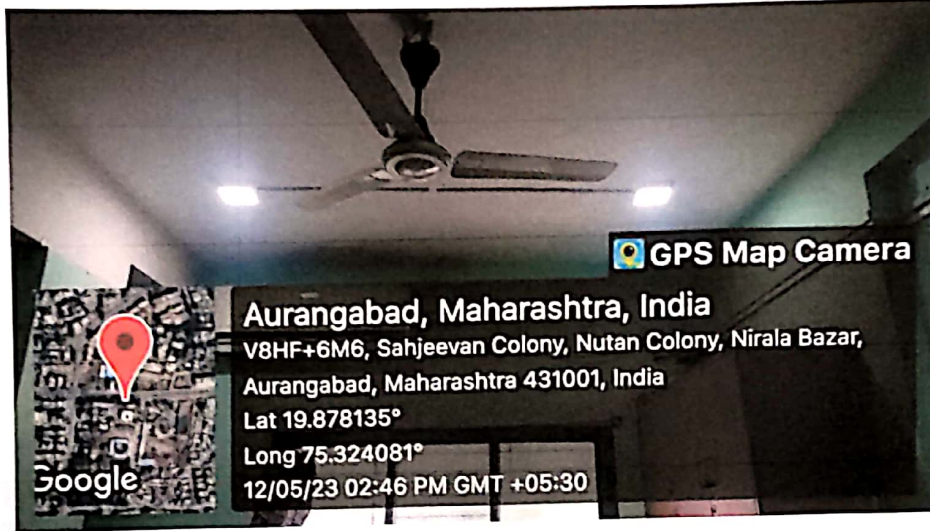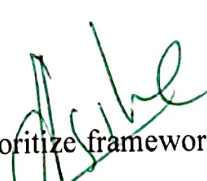
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SEAL

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2023-2024

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OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY, SEAL

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Average Electricity Consumption

Average Electricity Consumption/Month=1343KW Unit/Month

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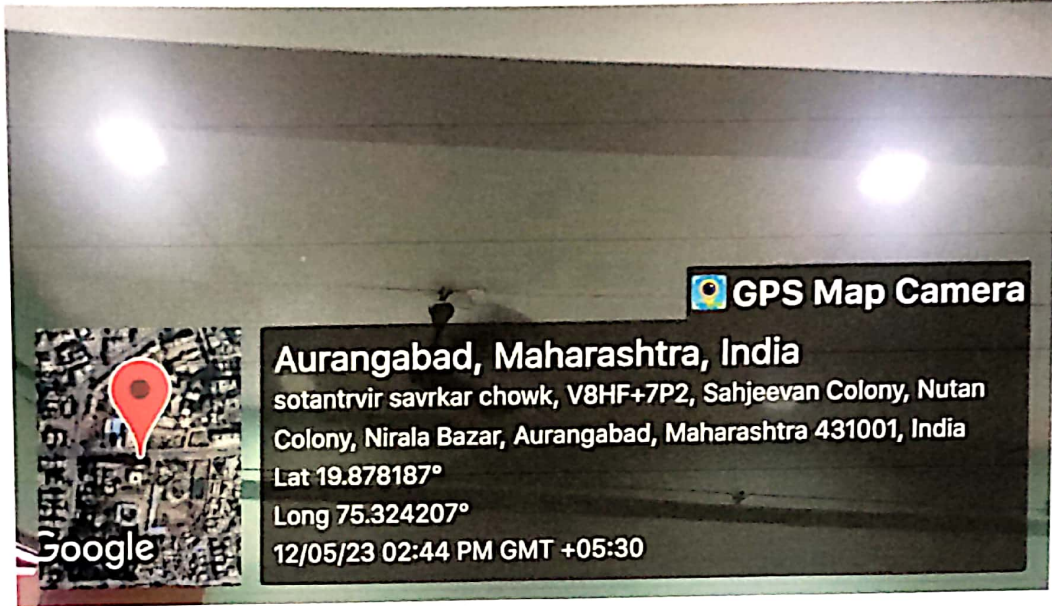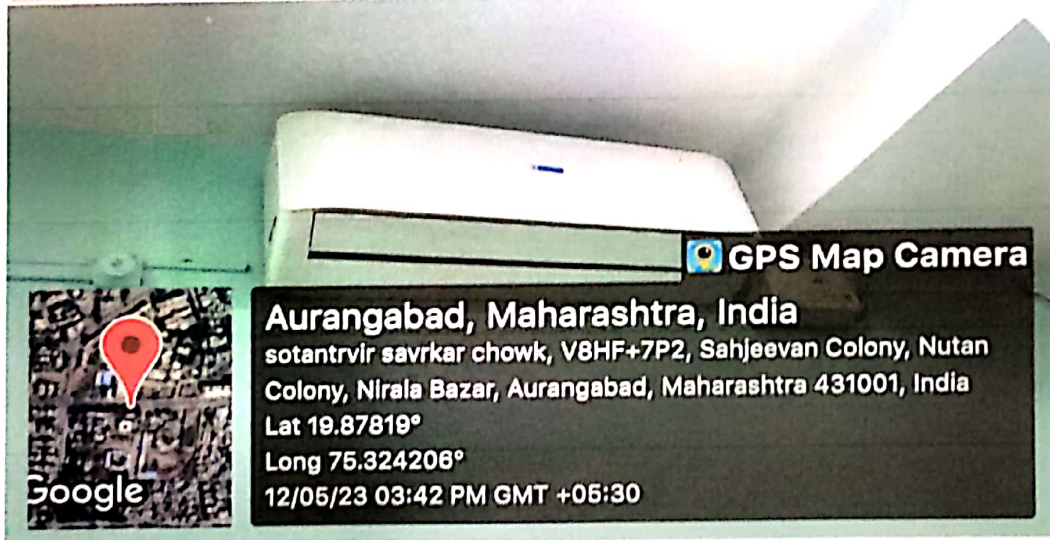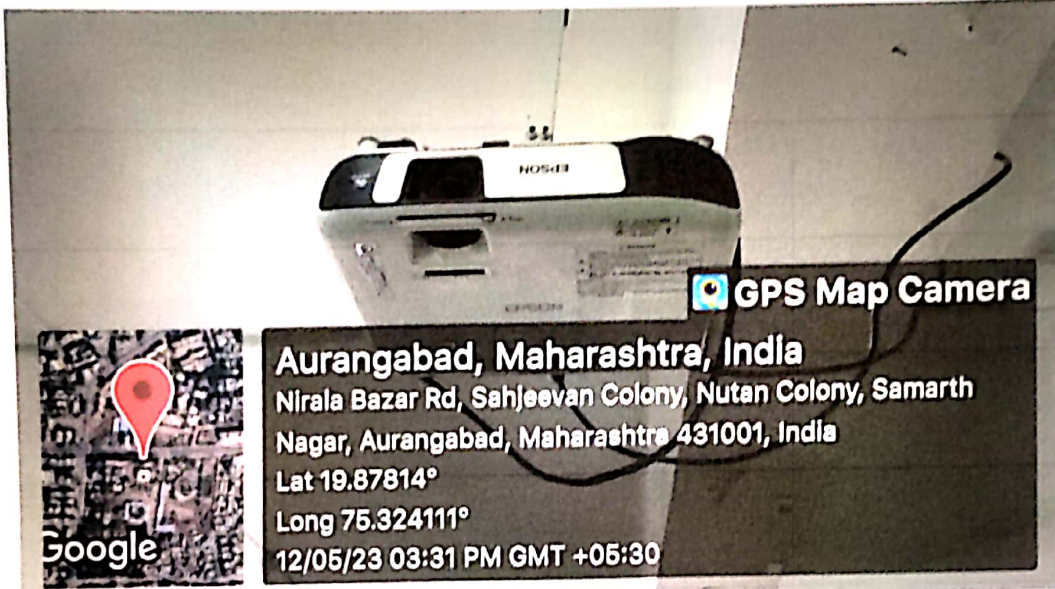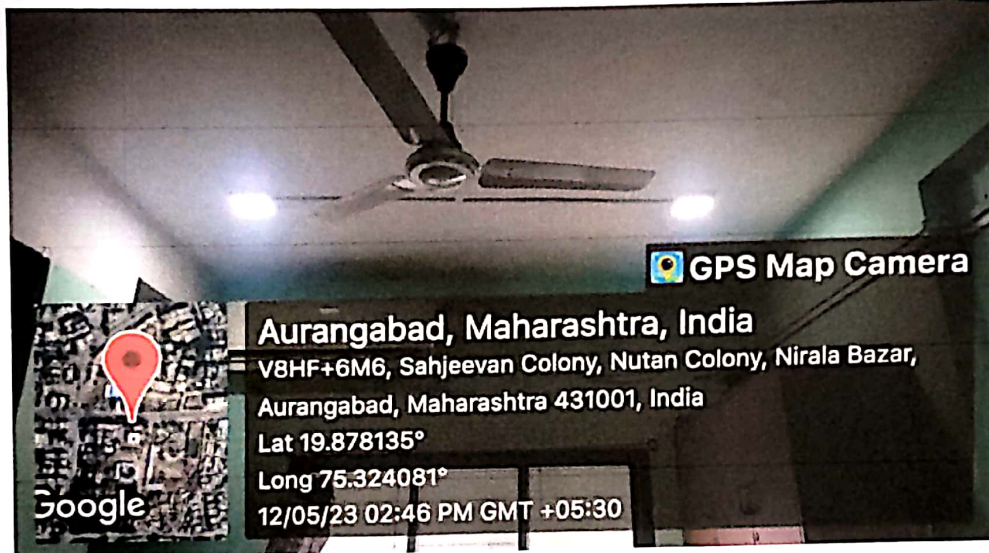Modern College of Computer Science & IT.,
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GPS Map Camera

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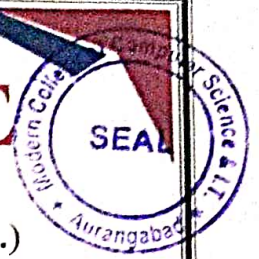Modern College of Computer Science & IT.,
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Environmental Audit

2019-2020

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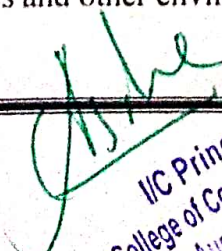Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Environmental auditing is a methodical, recorded, recurring, and impartial procedure used to evaluate an organization's services and operations with regard to:

- Evaluating adherence to pertinent internal and legislative requirements
- Enabling environmental practice management control
- Encouraging responsible environmental management
- Upholding credibility with the general public
- Increasing knowledge among employees and requiring adherence to departmental environmental policies
- looking for potential areas for improvement Determining the benchmark performance in order to create an environmental management system

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PARMITA EDUCATION SOCIETY

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OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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Introduction:

Modern College of Computer Science & Information Technology, Aurangabad. is one of the quality colleges in Maharashtra the college was established in 2010 run by the society of Parmita Education Society. and affiliated to Dr, Babasaheb Ambedkar Marathwada University, Aurangabad. Its mission is to provide quality education to all by means of sheer hard work, dedication, and devotion. The College completed 14 years in the year 2022, the college has made its mark in terms of education dissemination and expansion.

The college has been settled in the new building which is located at Sahjeevan Colony, Savarkar Chowk, Aurangabad. pleasure and pride movement of the college is Dr, Babasaheb Ambedkar Marathwada University visited the college. the college has excellent. highly qualified & dedicated faculties with good infrastructure, disciplines, and competent administration with a track of good results. The college offers two courses BCA. and B.Sc. The college is implementing healthy and innovative practices like the informal Alumni Association, Career Guidance, and Counselling Cell.

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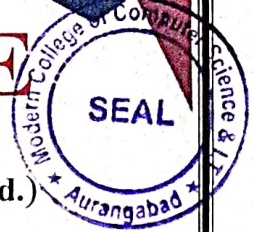
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SEAL

Indicator I : Campus Energy Power

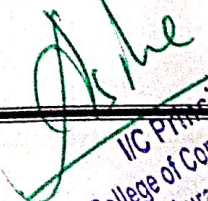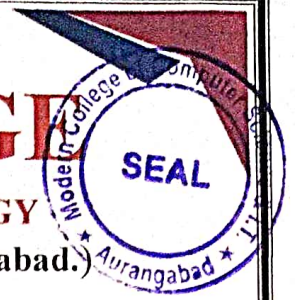**Goal :** To promote the efficient use of energy in an appropriate manner,

Benchmark:
Total consumption of Energy for the College office, Library does not Exceed 70 Units / month /meter.

Observation Procedure

01	The number of Electrical Meters on the campus is counted
02	The average electricity consumption in Units is calculated
03	The electrical appliances available in the campus area have been observed.
04	We have also observed the types of electrical appliances on the campus.
05	The available electrical appliances and the power-saving appliances have been observed.

The number of electric meters in the campus are **01**

Average Electricity Consumption month **1450**

Year	Total usage of energy for the academic year (in Units)
2019-20	**Average 1450 units/month** **Total usage in the academic year = 17400units**

2

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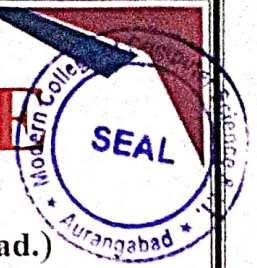Modern College of Computer Science & I.T.,
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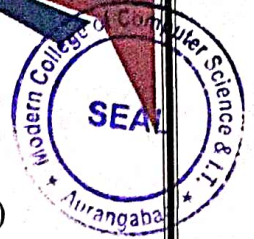Modern College of Computer Science & I.T.,
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SEAL

Observations of Electric Meters and Electricity Consumption

Since 2018 the college has employed several measures to save energy including:

- The use of CFL lamps and LED lamps in the college office, class rooms and library.

- Computers and other equipment's are put on power-saving mode.

These missions have helped to reduce the overall energy consumption in campus. The college authorities have adopted several measures to inculcate the value of energy conservation among the staff members and students.

Generator is also used as alternative source whenever.

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4

Indicator II : Roof Water Harvesting

Rainwater harvesting first of all increases water security. It is the perfect solution to meet water requirements especially in the areas which do not have sufficient water resources. It helps in improving the quality of the ground water and increasing the level of the ground water. It reduces the loss of top layer of the soil. If we capture the water directly, we need not to depend much on the water storage dams.

Goal : To use rain water for bore well

The Practice:

The most important part of the rain water harvesting is the storage system. The storage system is designed in a proper manner so that there will be adequate water storage in the bore well.

The institution has enacted the projects of Roof water harvesting. The project of roof water harvesting is in operation. It is setup on the top of the hostel building. Rain water which precipitates on roof is collected through pipes and filtered it in bore well. Roof Water Harvesting is observed to be very beneficial to conserve the wastage of water into water use. The water is used in campus for Drinking, in laboratories, urinals, lavatories and gardening.

01	Whether the institution has installed roof water harvesting	Yes
	If yes, give the details-	
	The institution has installed total (1) Roof water harvesting units at the college campus	
02	Provide the total requirement of water per day in campus	

I/C Principal
Modern College of Computer Science & I.T.,
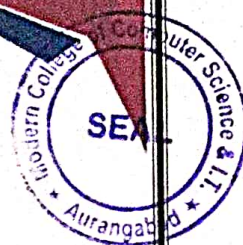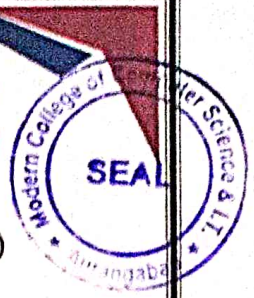Aurangabad.

5

PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Sr. No	Area used for roof water Harvesting	Sq feet
01	CollegeBuilding	1480.4144
	Total	1480.4144

The total requirement of water per day on the campus is given below:

Academic year	Consumption of water/day for drinking and sanitation	Total consumption/day	Total annual usage of water by considering 272 days of working
2019	06 lit person X strength of students & Staff (40)Litres	240	2880 Litres

Detailed calculation of RWH are given below

A	(Catchment area of building where roof water harvesting is done)	137.5350 Sq.M
R	Inches of rain or Annual rain fall in area m.m	117 mm
G	Total amount of collected rain water	9654.957 G
	$G = (A)*(R)* 600 gallons/1000$	(36547.988002 Ltr)
	137.5350*117*600/1000	

IIC Principal
Modern College of Computer Science & I.T.,
Aurangabad.

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Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Conclusion

01	Total usage of water in the college per annum	9654.957
02	Total amount of collected water per annum	2400
03	% age of water conserved	40%

I/C Principal
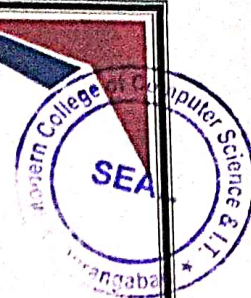Modern College of Computer Science & I.T.,
Aurangabad.

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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

SEAL

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Indicator III : Campus Plantation

Planting plants and trees is called tree plantation. Tree planting is done to protect the environment that is in danger of being destroyed as well as to make our campus and lives more beautiful. Trees are priceless gifts from the natural world. They are regarded as people's best buddies. They assist us in a number of ways. Without trees in the planet, human life would not be possible, nor could those of other creatures or insects.

Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. We can get shade, fuel, furniture, fruits, medicine, and food from trees. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion. Trees are an integral element of our existence. Therefore, in order to preserve the balance between man and nature, it is our responsibility to plant more trees and to care for them. Large-scale tree planting is necessary to both protect the world from the greenhouse effect and advance economic development in the nation.

The Practice:

The goal of planting trees is to create a lovely environment that inspires creativity in the end. It is particularly helpful in learning environments when the external environment has a distinct effect on the student and transforms him from a passive receptor into an active learner.

Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. Trees provide us with shade, fuel, furniture, food, medicine, and fruits. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion.Despite having little rainfall, the college has planted trees to improve the environment for creative work. The college just established a modest botanical garden and plans to expand it in the upcoming years. The increased rainfall this year has made the authorities more aware, and as a result, they are taking a methodical approach to maintaining a clean and green campus.

8

Modern College, an esteemed educational institution, has embraced environmental sustainability by initiating a tree-planting drive in collaboration with Vikramshila College. This joint venture aims to enhance the green cover on campus, fostering a serene and eco-friendly atmosphere conducive to learning and personal growth. The project has seen the plantation of a diverse array of trees, including native species that support local biodiversity and exotic varieties that add to the aesthetic appeal. These trees not only provide shade and beauty but also contribute to reducing carbon footprints, improving air quality, and supporting the local ecosystem. Through this initiative, both colleges are setting a commendable example of environmental stewardship and the importance of nurturing nature for future generations.

Common Name	Botnical Name	Family	No.of Plants
Pimple	Ficus Religosa	Fabaceae	1
Jambhul	Syzygium cumini	Myrtaceae	3
Chinch	Tamarindus indica	Fabaceae	2
Boar	Ziziphus mauritiana	Rhamnaceae	1
awala	Phyllanthus emblica	Phyllanthaceae	2
Jaswand	Hibiscus rosa-sinensis	Malvaceae	1
neem	Azadirachta indica	Meliaceae	1
sadafuli	Catharanthus roseus	Apocynaceae	1
Amba	Mangifera indica	Anacardiaceae	1
Ashoka	Saraca asoca	Fabaceae	1

I/C Principal
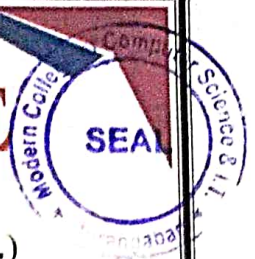Modern College of Computer Science & I.T.,
Aurangabad.

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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

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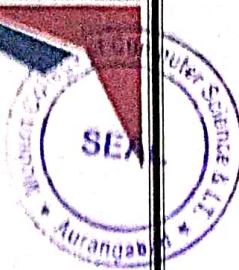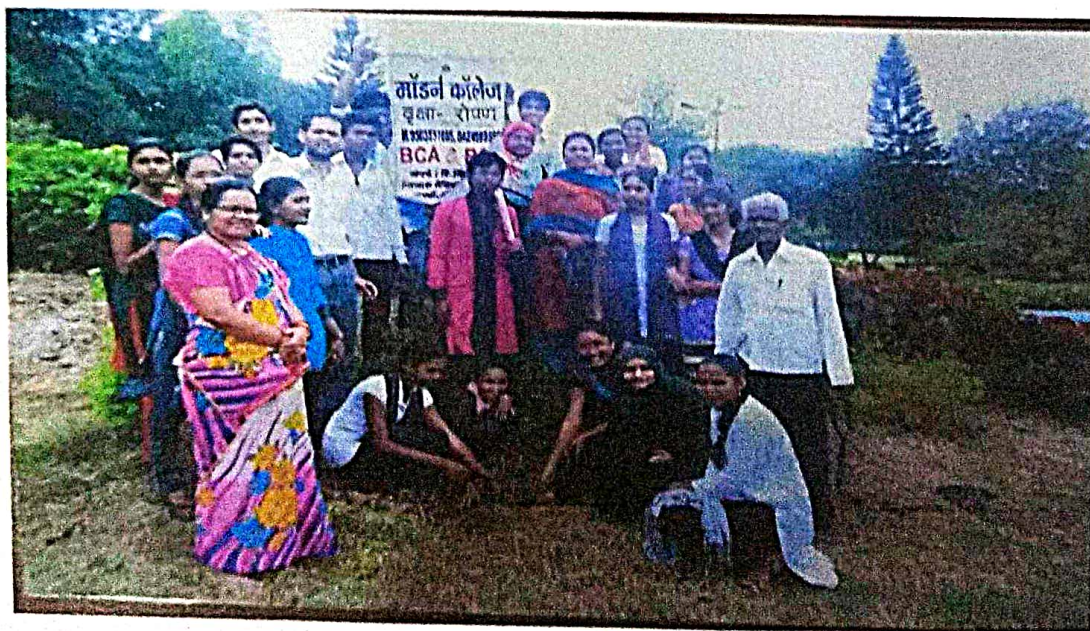Modern College of Computer Science & I.T.,
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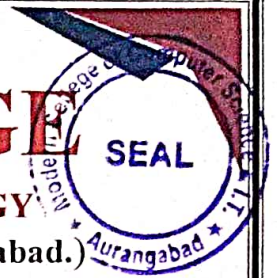Modern College of Computer Science & I.T.,
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OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895 "A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Indicator IV : Conservation of Environment

Aim : to foster a culture of responsibility and awareness for environmental issues on campus. Involve the management, staff, instructors, and students in a collaborative investigation and resolution of these problems.

Performance: Environmental preservation in collegiate environments is essential to sustainability. It raises awareness of environmental issues among students, encourages eco-friendly behavior, and supports conservation research. Future environmental leaders are shaped by colleges, which also help to cultivate an environmentally conscious culture.

The college is having the following practice as a part of Green Practice

1. Environment Day Celebration

2. Tree Plantation

3. The college is implementing the following practices as part of their Green Practice initiative.

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IIC Principal
Modern College of Computer Science & I.T.,
Aurangabad.
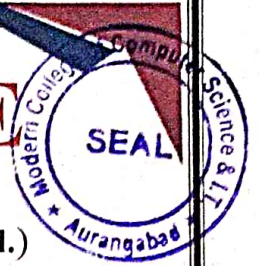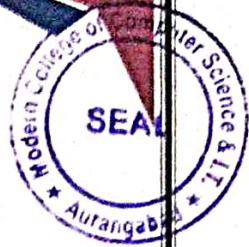
Environmental Audit

2020-2021

PARMITA EDUCATION SOCIETY
MODERN COLLEGE
OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY
Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Contents

I/C Principal
Modern College of Computer Science & I.T.,
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Environmental auditing is a methodical, recorded, recurring, and impartial procedure used to evaluate an organization's services and operations with regard to:

- Evaluating adherence to pertinent internal and legislative requirements
- Enabling environmental practice management control
- Encouraging responsible environmental management
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I/C Principal
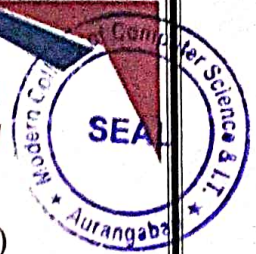Modern College of Computer Science & I.T.,
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1

PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Introduction:

Modern College of Computer Science & Information Technology, Aurangabad. is one of the quality colleges in Maharashtra the college was established in 2010 run by the society of Parmita Education Society. and affiliated to Dr, Babasaheb Ambedkar Marathwada University, Aurangabad. Its mission is to provide quality education to all by means of sheer hard work, dedication, and devotion. The College completed 14 years in the year 2022, the college has made its mark in terms of education dissemination and expansion.

The college has been settled in the new building which is located at Sahjeevan Colony, Savarkar Chowk, Aurangabad. pleasure and pride movement of the college is Dr, Babasaheb Ambedkar Marathwada University visited the college. the college has excellent. highly qualified & dedicated faculties with good infrastructure, disciplines, and competent administration with a track of good results. The college offers two courses BCA. and B.Sc. The college is implementing healthy and innovative practices like the informal Alumni Association, Career Guidance, and Counselling Cell.

Objectives:

The purpose of present green audit is to identify, quantify, describe and prioritize framework of Environmental Sustainability.

- To ascertain how much electricity is used on campus.

- To determine if Modern College initiatives have contributed to a decrease in the carbon footprints

- To determine if the institution's extracurricular activities

- promote the collection, recovery, reuse, and of solid wastes and other environmentally hazardous materials.

I/C Principal
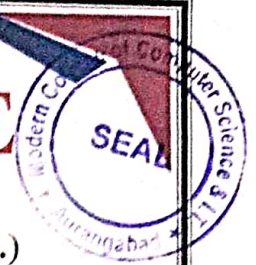Modern College of Computer Science & I.T.,
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PARMITA EDUCATION SOCIETY

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Indicator I : Campus Energy Power

Goal : To promote the efficient use of energy in an appropriate manner,

Benchmark:

Total consumption of Energy for the College office, Library does not Exceed 70 Units / month /meter.

Observation Procedure

01	The number of Electrical Meters on the campus is counted
02	The average electricity consumption in Units is calculated
03	The electrical appliances available in the campus area have been observed.
04	We have also observed the types of electrical appliances on the campus.
05	The available electrical appliances and the power-saving appliances have been observed.

The number of electric meters in the campus are **01**	
Average Electricity Consumption month **1510 units/month**	

Year	Total usage of energy for the academic year (in Units)
2020-21	**Average 1510 units/month** **Total usage in the academic year = 18120 units**

IIC Principal
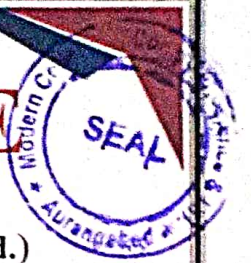Modern College of Computer Science & I.T.,
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3

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Sr No.	Name of Particulars	Total No
1.	Total No. of Electrical fans	32
2.	Exhaust fans	06
3.	Air Conditioner	06
4.	Total No. of LED lights	76
5.	Total No. of LED Tubelights	07
6.	Total No. of CFL lam	04
7.	Total No. of Sockets	64
8.	Water Motors	2
9.	Water Cooler	1
10.	No. of Computer	20
11.	Printers	2
12.	Inverters	1
13.	LCD Projectors	1
14.	Cctv camera	3
15.	Water purifier	1
16.	Colour Printer + Scanner	1
17.	Water Motor	2
18.	R.O Motor	1

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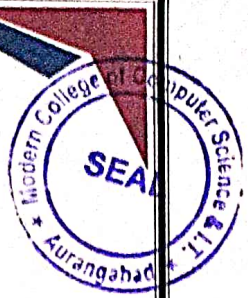Modern College of Computer Science & I.T.,
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Observations of Electric Meters and Electricity Consumption

Since 2018 the college has employed several measures to save energy including:

- The use of CFL lamps and LED lamps in the college office, class rooms and library.

- Computers and other equipment's are put on power-saving mode.

These missions have helped to reduce the overall energy consumption in campus. The college authorities have adopted several measures to inculcate the value of energy conservation among the staff members and students.

Generator is also used as alternative source whenever needed.

I/C Principal
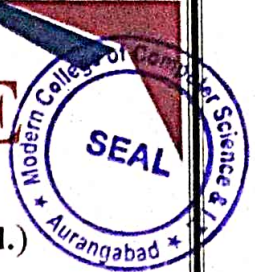Modern College of Computer Science & I.T.,
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Indicator II : Roof Water Harvesting

Rainwater harvesting first of all increases water security. It is the perfect solution to meet water requirements especially in the areas which do not have sufficient water resources. It helps in improving the quality of the ground water and increasing the level of the ground water. It reduces the loss of top layer of the soil. If we capture the water directly, we need not to depend much on the water storage dams.

Goal : To use rain water for bore well

The Practice:

The most important part of the rain water harvesting is the storage system. The storage system is designed in a proper manner so that there will be adequate water storage in the bore well.

The institution has enacted the projects of Roof water harvesting. The project of roof water harvesting is in operation. It is setup on the top of the hostel building. Rain water which precipitates on roof is collected through pipes and filtered it in bore well. Roof Water Harvesting is observed to be very beneficial to conserve the wastage of water into water use. The water is used in campus for Drinking, in laboratories, urinals, lavatories and gardening.

01	Whether the institution has installed roof water harvesting	Yes
	If yes, give the details-	
	The institution has installed total (1) Roof water harvesting units at the college campus	
02	Provide the total requirement of water per day in campus	

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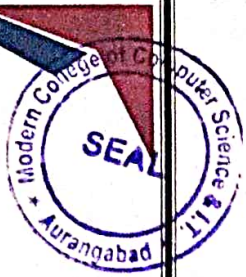Modern College of Computer Science & I.T.,
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Sr. No	Area used for roof water Harvesting	Sq feet
01	College Building	1480.4144
	Total	1480.4144

The total requirement of water per day on the campus is given below:

Academic year	Consumption of water/day for drinking and sanitation	Total consumption/day	Total annual usage of water by considering 272 days of working
2020-21	06 lit person X strength of students & Staff (37) Litres	222	2664 Litres

Detailed calculation of RWH are given below

A	(Catchment area of building where roof water harvesting is done)	137.5350 Sq.M
R	Inches of rain or Annual rain fall in area m.m	123 mm
G	Total amount of collected rain water	10150 G
	$G = (A)*(R)* 600gallons/1000$	(38421.93 Ltr)
	137.5350*123*600/1000	

I/C Principal
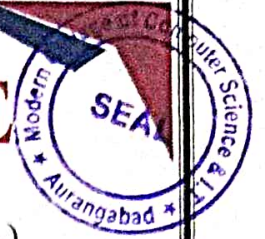Modern College of computer Science & I.T.,
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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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Conclusion		
01	Total usage of water in the college per annum	10150
02	Total amount of collected water per annum	1200
03	% age of water conserved	11%

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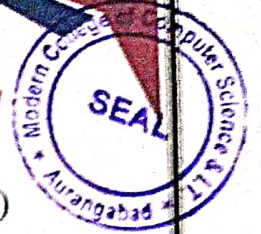Modern College of Computer Science & I.T.,
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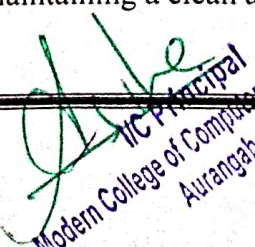
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The goal of planting trees is to create a lovely environment that inspires creativity in the end. It is particularly helpful in learning environments when the external environment has a distinct effect on the student and transforms him from a passive receptor into an active learner.

Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. Trees provide us with shade, fuel, furniture, food, medicine, and fruits. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion.Despite having little rainfall, the college has planted trees to improve the environment for creative work. The college just established a modest botanical garden and plans to expand it in the upcoming years. The increased rainfall this year has made the authorities more aware, and as a result, they are taking a methodical approach to maintaining a clean and green campus.
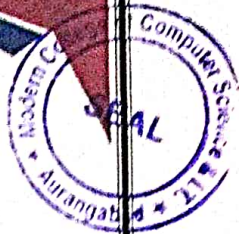
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PARMITA EDUCATION SOCIETY

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Modern College, an esteemed educational institution, has embraced environmental sustainability by initiating a tree-planting drive in collaboration with Vikramshila College. This joint venture aims to enhance the green cover on campus, fostering a serene and eco-friendly atmosphere conducive to learning and personal growth. The project has seen the plantation of a diverse array of trees, including native species that support local biodiversity and exotic varieties that add to the aesthetic appeal. These trees not only provide shade and beauty but also contribute to reducing carbon footprints, improving air quality, and supporting the local ecosystem. Through this initiative, both colleges are setting a commendable example of environmental stewardship and the importance of nurturing nature for future generations. The following table gives clear indication of different types of trees planted:

Common Name	Botnical Name	Family	No.of Plants
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I/C Principal
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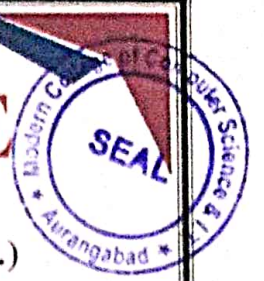Modern College of Computer Science & I.T.,
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PARMITA EDUCATION SOCIETY

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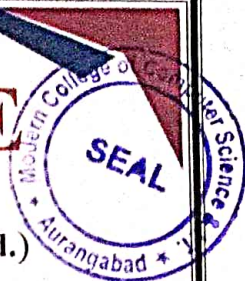Modern College of Computer Science & I.T.,
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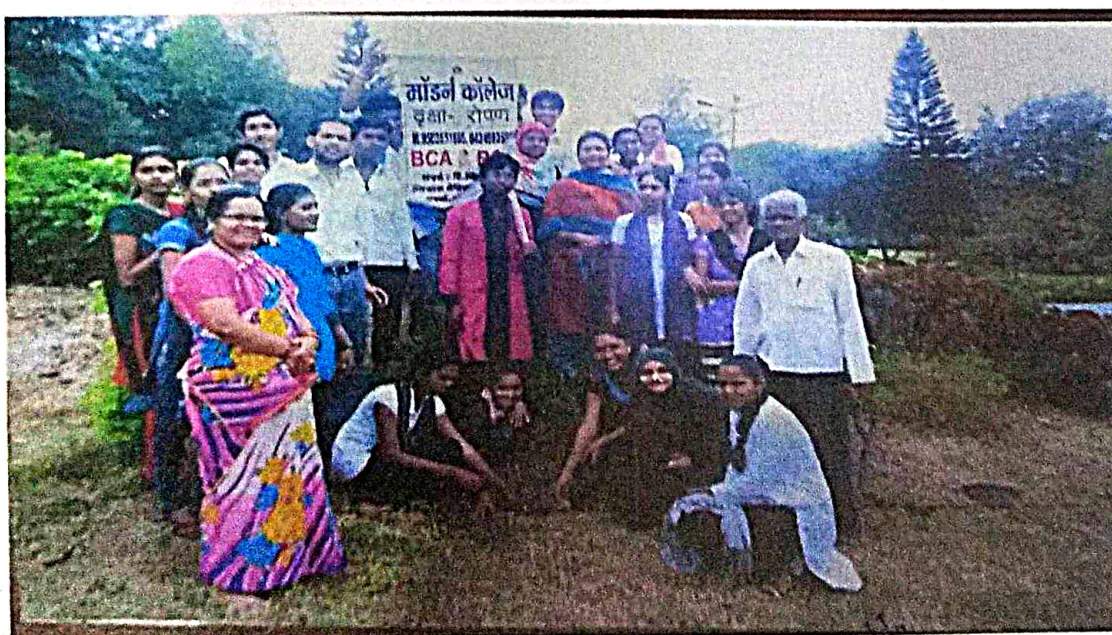
SEAL

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I/C Principal
Modern College of Computer Science & I.
Aurangabad.

Environmental Audit

2021-2022

PARMITA EDUCATION SOCIETY

MODERN COLLEGE

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Modern College of Computer Science & I.T.,
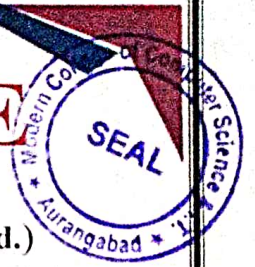Aurangabad.

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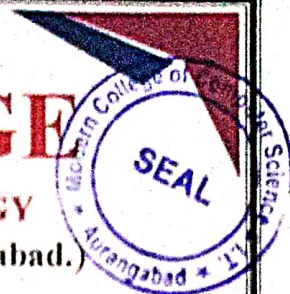
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- To determine if the institution's extracurricular activities

- promote the collection, recovery, reuse, and of solid wastes and other environmentally hazardous materials.

1

PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

SEAL

Indicator I : Campus Energy Power

Goal : To promote the efficient use of energy in an appropriate manner,

Benchmark:

Total consumption of Energy for the College office, Library does not Exceed 70 Units / month /meter.

Observation Procedure

01	The number of Electrical Meters on the campus is counted
02	The average electricity consumption in Units is calculated
03	The electrical appliances available in the campus area have been observed.
04	We have also observed the types of electrical appliances on the campus.
05	The available electrical appliances and the power-saving appliances have been observed.

The number of electric meters in the campus are   01
Average Electricity Consumption month 1570

Year	Total usage of energy for the academic year (in Units)
2021-22	Average 1570 units/month Total usage in the academic year = 18840 units

I/C Principal
Modern College of Computer Science & I.T.,
Aurangabad.

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Sr No.	Name of Particulars	Total No
1.	Total No. of Electrical fans	32
2.	Exhaust fans	06
3.	Air Conditioner	06
4.	Total No. of LED lights	76
5.	Total No. of LED Tubelights	07
6.	Total No. of CFL lam	04
7.	Total No. of Sockets	64
8.	Water Motors	2
9.	Water Cooler	1
10.	No. of Computer	20
11.	Printers	2
12.	Inverters	1
13.	LCD Projectors	1
14.	Cctv camera	3
15.	Water purifier	1
16.	Colour Printer + Scanner	1
17.	Water Motor	2
18.	R.O Motor	1

I/C Principal
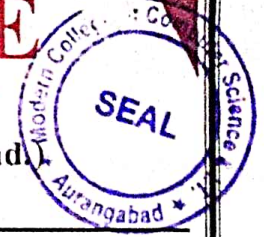Modern College of Computer Science & I.T.,
Aurangabad

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MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Observations of Electric Meters and Electricity Consumption

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- Computers and other equipment's are put on power-saving mode.

These missions have helped to reduce the overall energy consumption in campus. The college authorities have adopted several measures to inculcate the value of energy conservation among the staff members and students.

Generator is also used as alternative source whenever needed.

I/C Principal
Modern College of Computer Science & I.T.,
Aurangabad.

Indicator II : Roof Water Harvesting
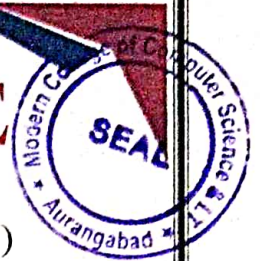
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Goal : To use rain water for bore well

The Practice:

The most important part of the rain water harvesting is the storage system. The storage system is designed in a proper manner so that there will be adequate water storage in the bore well.

The institution has enacted the projects of Roof water harvesting. The project of roof water harvesting is in operation. It is setup on the top of the hostel building. Rain water which precipitates on roof is collected through pipes and filtered it in bore well. Roof Water Harvesting is observed to be very beneficial to conserve the wastage of water into water use. The water is used in campus for Drinking, in laboratories, urinals, lavatories and gardening.

01	Whether the institution has installed roof water harvesting	Yes
	If yes, give the details-	
	The institution has installed total (1) Roof water harvesting units at the college campus	
02	Provide the total requirement of water per day in campus	

I/C Principal
Modern College of Computer Science & I.T.,
Aurangabad.

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Sr. No	Area used for roof water Harvesting	Sq feet
01	College Building	1480.4144
	Total	1480.4144

The total requirement of water per day on the campus is given below:

Academic year	Consumption of water/day for drinking and sanitation	Total consumption/day	Total annual usage of water by considering 272 days of working
2021-22	06 lit person X strength of students 98 & Staff Litres	588	7056 Litres

Detailed calculation of RWH are given below

01	(Catchment area of building where roof water harvesting is done)	137.5350 Sq.M
02	Inches of rain or Annual rain fall in area m.m	716 mm
03	Total amount of collected rain water	59085 G
	G = (A)*(R)* 600gallons/1000	(223661.06 Ltr)
	137.5350 *716*600/1000	

I/C Principal
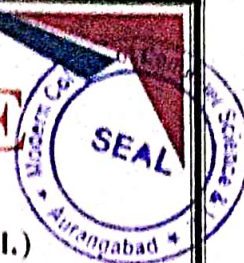Modern College of Computer Science & I.T.,

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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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Conclusion		
01	Total usage of water in the college per annum	59085
02	Total amount of collected water per annum	1300
03	% age of water conserved	22%

I/C Principal
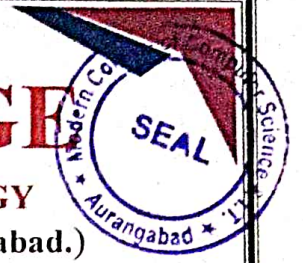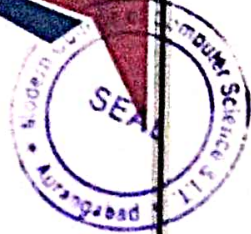Modern College of Computer Science & I.T.,
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Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. We can get shade, fuel, furniture, fruits, medicine, and food from trees. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion. Trees are an integral element of our existence. Therefore, in order to preserve the balance between man and nature, it is our responsibility to plant more trees and to care for them. Large-scale tree planting is necessary to both protect the world from the greenhouse effect and advance economic development in the nation.

The Practice:

The goal of planting trees is to create a lovely environment that inspires creativity in the end. It is particularly helpful in learning environments when the external environment has a distinct effect on the student and transforms him from a passive receptor into an active learner.

Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. Trees provide us with shade, fuel, furniture, food, medicine, and fruits. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion.Despite having little rainfall, the college has planted trees to improve the environment for creative work. The college just established a modest botanical garden and plans to expand it in the upcoming years. The increased rainfall this year has made the authorities more aware, and as a result, they are taking a methodical approach to maintaining a clean and green campus.

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OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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Modern College, an esteemed educational institution, has embraced environmental sustainability by initiating a tree-planting drive in collaboration with Vikramshila College. This joint venture aims to enhance the green cover on campus, fostering a serene and eco-friendly atmosphere

conducive to learning and personal growth. The project has seen the plantation of a diverse array of trees, including native species that support local biodiversity and exotic varieties that add to the aesthetic appeal. These trees not only provide shade and beauty but also contribute to reducing carbon footprints, improving air quality, and supporting the local ecosystem. Through this initiative, both colleges are setting a commendable example of environmental stewardship and the importance of nurturing nature for future generations.

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I/C Principal
Modern College of Computer Science & I.T.,
Aurangabad

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I/C Principal
Modern College of Computer Science & I.T.,
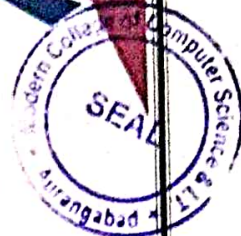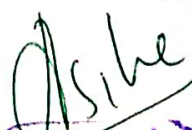Aurangabad.

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I/C Principal
Modern College of Computer Science & I.T.,
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Indicator IV : Conservation of Environment

Aim : to foster a culture of responsibility and awareness for environmental issues on campus. Involve the management, staff, instructors, and students in a collaborative investigation and resolution of these problems.

Performance: Environmental preservation in collegiate environments is essential to sustainability. It raises awareness of environmental issues among students, encourages eco-friendly behavior, and supports conservation research. Future environmental leaders are shaped by colleges, which also help to cultivate an environmentally conscious culture.

The college is having the following practice as a part of Green Practice

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2. Tree Plantation

3. The college is implementing the following practices as part of their Green Practice initiative.

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Environmental Audit

2022-2023

Contents

IIC Principal
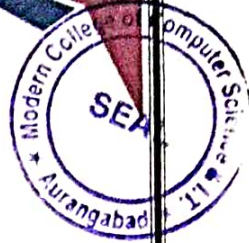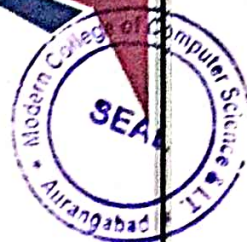Modern College of Computer Science & I.T.,
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Environmental auditing is a methodical, recorded, recurring, and impartial procedure used to evaluate an organization's services and operations with regard to:

- Evaluating adherence to pertinent internal and legislative requirements
- Enabling environmental practice management control
- Encouraging responsible environmental management
- Upholding credibility with the general public
- Increasing knowledge among employees and requiring adherence to departmental environmental policies
- looking for potential areas for improvement Determining the benchmark performance in order to create an environmental management system

I/C Principal
Modern College of Computer Science & I.T.,
Aurangabad.

Introduction:

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05	The available electrical appliances and the power-saving appliances have been observed.

The number of electric meters in the campus are 01	
Average Electricity Consumption month	
Year	**Total usage of energy for the academic year (in Units)**
2022-23	Average 1554 units/month Total usage in the academic year = 18648 units

I/C Principal
Modern College of Computer Science & I.T.,

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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

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18.	R.O Motor	1

I/C Principal
Modern College of Computer Science & I.T.,
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3

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IIC Principal
Modern College of Computer Science & I.T.,
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4

PARMITA EDUCATION SOCIETY

MODERN COLLEGE

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I/C Principal
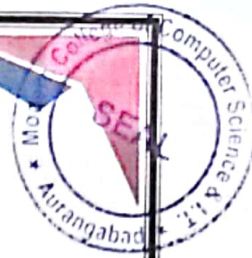Modern College of Computer Science & I.T.,
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	Total	1480.4144

The total requirement of water per day on the campus is given below:

Academic year	Consumption of water/day for drinking and sanitation	Total consumption/day	Total annual usage of water by considering 272 days of working
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Detailed calculation of RWH are given below

01	(Catchment area of building where roof water harvesting is done)	137.5350 Sq.M
02	Inches of rain or Annual rain fall in area m.m	189 mm
03	Total amount of collected rain water	15596 G
	$G = (A)*(R)* 600 gallons/1000$	(59037.282 Ltr)
	137.5350*189*600/1000	

I/C Principal
Modern College of Computer Science & I.T.,
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PARMITA EDUCATION SOCIETY

MODERN COLLEGE

OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Reg. No. F-11895/"A'bad"   (Affiliated to Dr. B.A.M.U. University, Aurangabad.)

Conclusion		
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02	Total amount of collected water per annum	1000
03	% age of water conserved	15%

I/C Principal
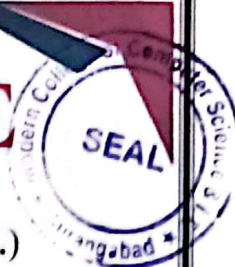Modern College of Computer Science & I.T.,
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sag	Tectona grandis	Lamiaceae	1
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SEAL

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I/C Principal
Modern College of Computer Science & I.T.,
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Environmental Audit

2023-2024

Contents

I/C Principal
Modern College of Computer Science & I.T.,
Aurangabad.

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MODERN COLLEGE

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SEAL

Indicator I : Campus Energy Power

Goal : To promote the efficient use of energy in an appropriate manner,

Benchmark:
Total consumption of Energy for the College office, Library does not Exceed 70 Units / month /meter.

Observation Procedure

01	The number of Electrical Meters on the campus is counted
02	The average electricity consumption in Units is calculated
03	The electrical appliances available in the campus area have been observed.
04	We have also observed the types of electrical appliances on the campus.
05	The available electrical appliances and the power-saving appliances have been observed.

The number of electric meters in the campus are 01		
Average Electricity Consumption month		
Year	**Total usage of energy for the academic year (19000 in Units)**	
2023-24	Average 1600 units/month Total usage in the academic year = 19000 units	

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Sr No.	Name of Particulars	Total No
1.	Total No. of Electrical fans	32
2.	Exhaust fans	06
3.	Air Conditioner	06
4.	Total No. of LED lights	76
5.	Total No. of LED Tubelights	07
6.	Total No. of CFl. lam	04
7.	Total No. of Sockets	64
8.	Water Motors	2
9.	Water Cooler	1
10.	No. of Computer	20
11.	Printers	2
12.	Inverters	1
13.	LCD Projectors	1
14.	Cctv camera	3
15.	Water purifier	1
16.	Colour Printer + Scanner	1
17.	Water Motor	2
18.	R.O Motor	1

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Observations of Electric Meters and Electricity Consumption

Since 2018 the college has employed several measures to save energy including:

- The use of CFL lamps and LED lamps in the college office, class rooms and library.

- Computers and other equipment's are put on power-saving mode.

These missions have helped to reduce the overall energy consumption in campus. The college authorities have adopted several measures to inculcate the value of energy conservation among the staff members and students.

Generator is also used as alternative source whenever needed.

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Indicator II : Roof Water Harvesting

First and foremost, rainwater collection improves water security. It is the ideal way to satisfy water demands, particularly in places with insufficient water supplies. It contributes to raising groundwater levels and enhancing the quality of the water. It lessens the loss of the soil's top layer. We won't need to rely as heavily on water storage dams if we capture the water directly.

Goal : To use rain water for bore well

The Practice:

The most important part of the rain water harvesting is the storage system. The storage system is designed in a proper manner so that there will be adequate water storage in the bore well.

The institution has enacted the projects of Roof water harvesting. The project of roof water harvesting is in operation. It is setup on the top of the hostel building. Rain water which precipitates on roof is collected through pipes and filtered it in bore well. Roof Water Harvesting is observed to be very beneficial to conserve the wastage of water into water use. The water is used in campus for Drinking, in laboratories, urinals, lavatories and gardening.

01	Whether the institution has installed roof water harvesting	Yes
	If yes, give the details-	
	The institution has installed total (1) Roof water harvesting units at the college campus	
02	Provide the total requirement of water per day in campus	

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Sr. No	Area used for roof water Harvesting	Sq feet
01	College Building	1480.4144
	Total	1480.4144

The total requirement of water per day on the campus is given below:

Academic year	Consumption of water/day for drinking and sanitation	Total consumption/day	Total annual usage of water by considering 272 days of working
2023-24	06 lit person X strength of students & Staff (189)	1134	13608 Litres

Detailed calculation of RWH are given below

A	(Catchment area of building where roof water harvesting is done)	137.5350 Sq.M
R	Inches of rain or Annual rain fall in area m.m	700 mm
G	Total amount of collected rain water	57764 G
	$G = (A)*(R)* 600gallons/1000$	(218660.53) Ltr
	137.5350 *700*600/1000	

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Conclusion		
01	Total usage of water in the college per annum	57764
02	Total amount of collected water per annum	2300
03	% age of water conserved	39%

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Indicator III : Campus Plantation

Planting plants and trees is called tree plantation. Tree planting is done to protect the environment that is in danger of being destroyed as well as to make our campus and lives more beautiful. Trees are priceless gifts from the natural world. They are regarded as people's best buddies. They assist us in a number of ways. Without trees in the planet, human life would not be possible, nor could those of other creatures or insects.

Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. We can get shade, fuel, furniture, fruits, medicine, and food from trees. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion. Trees are an integral element of our existence. Therefore, in order to preserve the balance between man and nature, it is our responsibility to plant more trees and to care for them. Large-scale tree planting is necessary to both protect the world from the greenhouse effect and advance economic development in the nation.

The Practice:

The goal of planting trees is to create a lovely environment that inspires creativity in the end. It is particularly helpful in learning environments when the external environment has a distinct effect on the student and transforms him from a passive receptor into an active learner.

Trees provide humans with oxygen, which is necessary for life, and they also collect carbon dioxide. Trees provide us with shade, fuel, furniture, food, medicine, and fruits. Additionally, trees produce rainfall and cool the weather. Additionally, they bond the soil, halting erosion.Despite having little rainfall, the college has planted trees to improve the environment for creative work. The college just established a modest botanical garden and plans to expand it in the upcoming years. The increased rainfall this year has made the authorities more aware, and as a result, they are taking a methodical approach to maintaining a clean and green campus.

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Modern College, an esteemed educational institution, has embraced environmental sustainability by initiating a tree-planting drive in collaboration with Vikramshila College. This joint venture aims to enhance the green cover on campus, fostering a serene and eco-friendly atmosphere

conducive to learning and personal growth. The project has seen the plantation of a diverse array of trees, including native species that support local biodiversity and exotic varieties that add to the aesthetic appeal. These trees not only provide shade and beauty but also contribute to reducing carbon footprints, improving air quality, and supporting the local ecosystem. Through this initiative, both colleges are setting a commendable example of environmental stewardship and the importance of nurturing nature for future generations.

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Common Name	Botnical Name	Family	No.of Plants
Pimple	Ficus Religosa	Fabaceae	1
Jambhul	Syzygium cumini	Myrtaceae	3
Chinch	Tamarindus indica	Fabaceae	2
Boar	Ziziphus mauritiana	Rhamnaceae	1
awala	Phyllanthus emblica	Phyllanthaceae	2
Jaswand	Hibiscus rosa-sinensis	Malvaceae	1
neem	Azadirachta indica	Meliaceae	1
sadafuli	Catharanthus roseus	Apocynaceae	1
Amba	Mangifera indica	Anacardiaceae	1
Ashoka	Saraca asoca	Fabaceae	1
Phanas	Artocarpus heterophyllus	Moraceae	2
Sag	Tectona grandis	Lamiaceae	1
Medshingi	Gliricidia sepium	Fabaceae	3
Palm	Cocos nucifera	Arecaceae	2

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Indicator IV : Conservation of Environment

Aim : to foster a culture of responsibility and awareness for environmental issues on campus. Involve the management, staff, instructors, and students in a collaborative investigation and resolution of these problems.

Performance: Environmental preservation in collegiate environments is essential to sustainability. It raises awareness of environmental issues among students, encourages eco-friendly behavior, and supports conservation research. Future environmental leaders are shaped by colleges, which also help to cultivate an environmentally conscious culture.

The college is having the following practice as a part of Green Practice

1. Environment Day Celebration

2. Tree Plantation

3. The college is implementing the following practices as part of their Green Practice initiative.

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