

Green Audit Report

(2023-24)



Hindustani Education Society's

Sharadchandra Mahavidyalaya

Address: Tq. Kalamb Dist. Dharashiv - 413528 (M.S.)



Shiradhon Kallam Osmanabad, Maharashtra, India
G55W+WG5, Osmanabad, Maharashtra 413528, India

Green Audit report Submitted by



Kedar Khamitkar & Associates

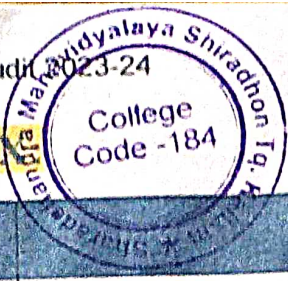
Energy Auditor Empanelled Mahaurja, Govt. of Maharashtra Institution

M: 9850244702 Email: kabachat@gmail.com

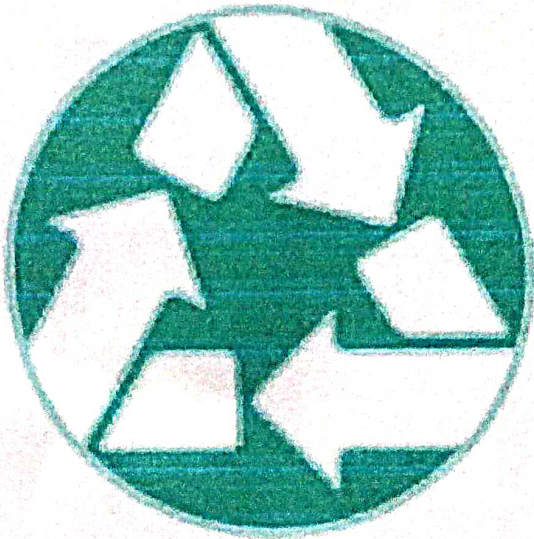
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IQAC of Sharadchandra
Mahavidyalaya, Shiradhon



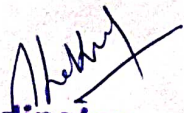
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I/C Principal
Sharadchandra Mahavidyalaya
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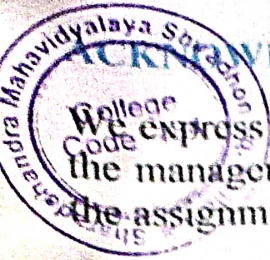


GREEN AUDIT


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ACKNOWLEDGEMENT

We express our sincere gratitude to the I/C Principal Dr. Sajed A. Chaus Sir and the management of Sharadchandra Mahavidyalaya, Shiradhon for awarding us the assignment of Green Audit of their Campus.



Kedar Khamitkar
Energy Auditor

Certified by Bureau of Energy Efficiency, Ministry of Power, Gov. of India
Empanelled Consultant MAHAURJA (Govt. of Maharashtra Institution



Green Audit

Date : 12.04.24



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



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EXECUTIVE SUMMARY:

Objective	Observation	Recommendation
Use of Land	Plantation of trees is started in the campus, at Present 69% area campus is having the Green cover.	Good Initiative
Use of Renewable Energy	Institute is planning to install rooftop Solar Power Plant. Presently Institute is using Maximum use of Natural Sunlight.	'Natural light better than artificial'
Water Conservation	Recommended to Install Sign Boards. Conduct Awareness Project for Water Conservation.	It is recommended to install taps with reduced water flow
Rain Water harvesting	Installed rainwater harvesting (Attached Photo)	Good Initiative
Water Management	RO water providing safe drinking water.	Recommended for waste water treatment plant.
Bio Waste Management	The Bio Waste – Food Waste generated in the campus is proposed to be feed stock for Bio Gas plant	Good Initiative
Non Bio Waste	Non Bio Waste – Plastic Bottles / Paper Waste Metals waste is being collected in the dust bins placed across the campus.	It is proposed to install plastic bottle crusher, which can be sold as a Feed stock for the Plastic industry.
E Waste	E Waste – All Electronic Junk is generated in the campus in the form of Used Computer key boards/ Mouse/ CPU's/ Damaged Printers etc.	An agreement is in place with local Company to pick up the E waste every six month

Green Initiative



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Scope of Work & Green Audit Methodology

Sharadchandra Mahavidyalaya, Shiradhon entrusted the work of conducting a detailed Green Audit of campus with the main objectives are as bellows:

Objectives of Green Audit:

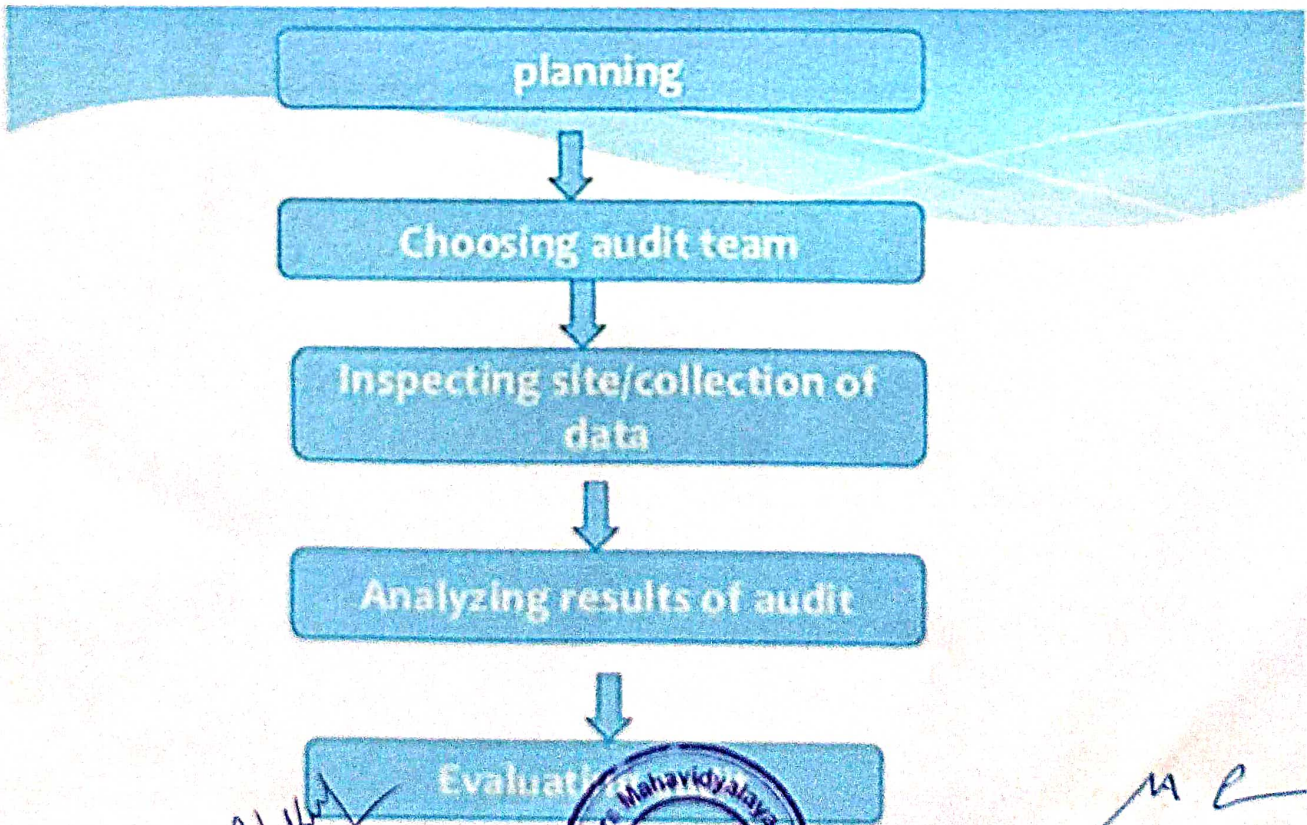
1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. To identify and analyze significant environmental issues.
3. Setup goal, vision, and mission for Green practices in campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in green

Need of Green Audit:

Green auditing is the process of identifying and determining whether institutions practices are eco-friendly and sustainable. Green audit regulates all such practices and gives an efficient way of natural resource utilization. In the era of climate change and resource depletion it is necessary to verify the processes and convert it in to green and clean one. Green audit provides an approach for it. It also increases overall consciousness among the people working in institution towards an environment.

Methodology of Green Audit:

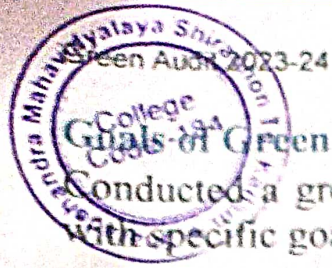
Sharadchandra Mahavidyalaya, Shiradhon Campus has been conducted with specific methodology as follows:



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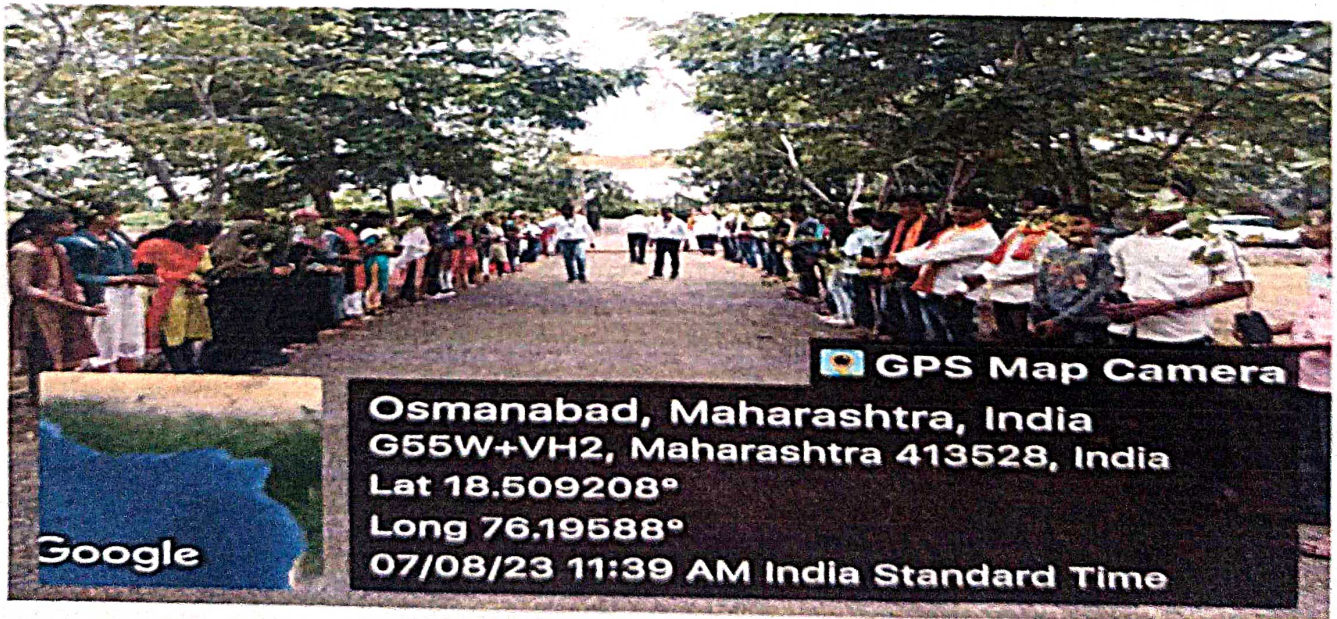
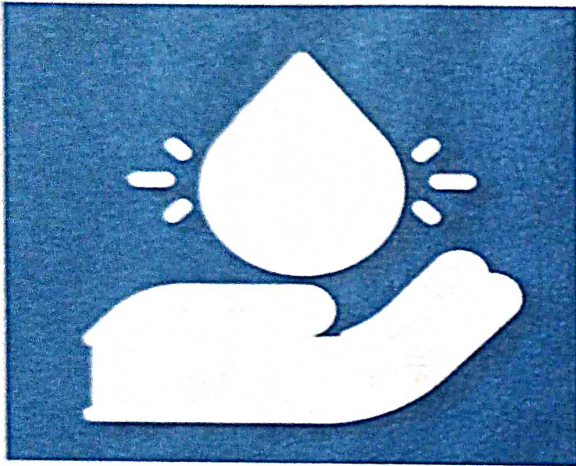
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Goals of Green Audit:

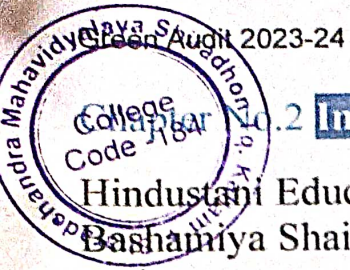
Conducted a green audit of Sharadchandra Mahavidyalaya, Shiradhon Campus with specific goals as:

- Geographical Location
- Floral and Faunal Diversity
- Meteorological parameter
- Pollution Eradication
- Energy Consumptions
- Waste Disposal System
- Ambient Environmental Condition
- Evaluate Environmental Footprints
- Efficient and Effective usage of Scarce Resources (Fossil fuel)
- Awareness & Training on Sustainability for Students



Observations :

The college has taken an initiative to ban single use plastic in the college campus.



0.2 Introduction about the Institute

Hindustani Education Society was established in 1978 by Hon. Late Nawaboddin Basha Shaikh with a great vision. His vision behind the establishment of the society was to uplift the society. He wanted to spread the stream of knowledge to the society living in the villages. After serving in different institutes as a teacher he founded Hindustani Education Society which was an educationally and economically backward area.

Sharad Chandra Mahavidyalaya is an affiliated college of Dr. Babasaheb Ambedkar Marathwada University, Sambhajinagar. It offers undergraduate and postgraduate courses in various disciplines such as Arts, Commerce, Science, Computer Applications and Management Studies. The college has a strong focus on research activities with faculty members actively involved in publishing papers in reputed journals. The campus also provides excellent facilities for students including hostel accommodation, library services and sports amenities.

ARIAL VIEW OF COLLEGE CAMPUS (SOURCE GOOGLE EARTH)



Address: Shiradhon. Tq. Kallam Dist: Dharashiv-413528

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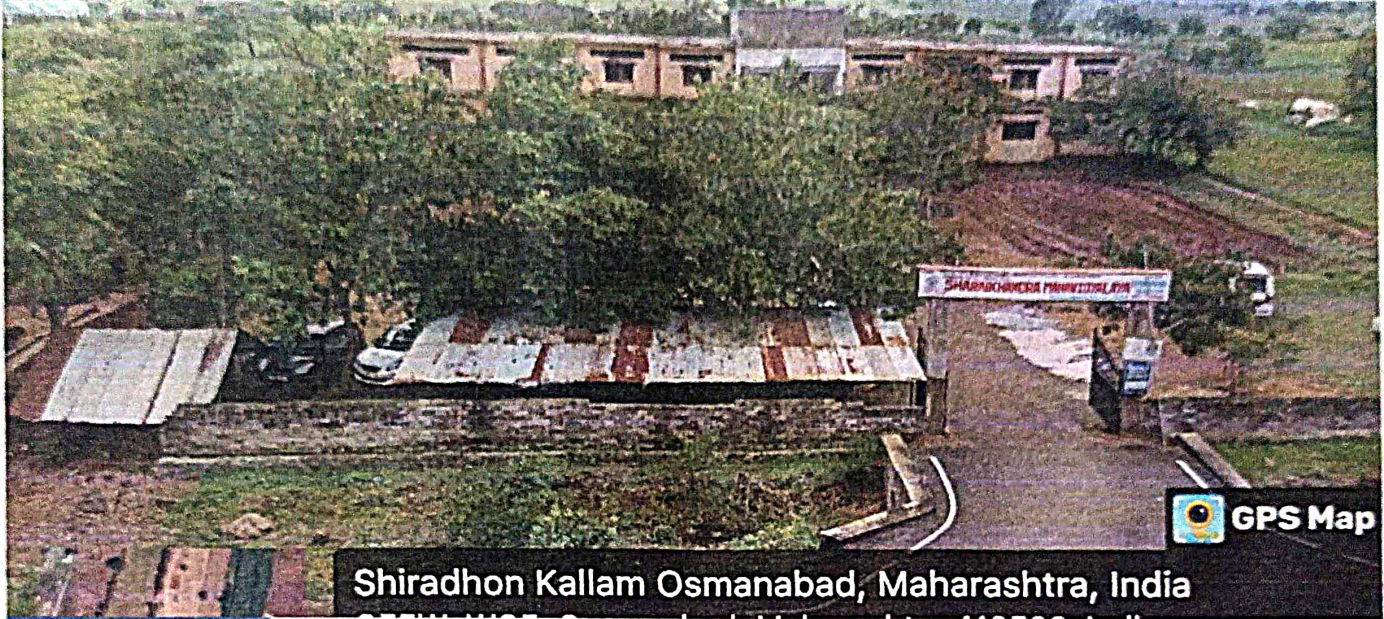
Categories of Land Use

Plantation of trees is started in the campus and the green cover is extended every year in the campus.

Built up Area	1783.24	SQM
Plantation Area	4046.86	SQM

Audit Framework and detailed findings of the Audit:

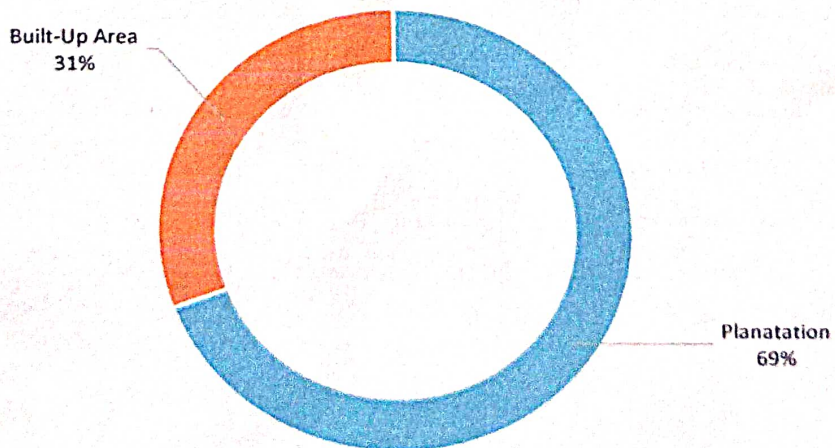
Green Landscaping with Trees and Plants – the campus is beautifully landscaped.



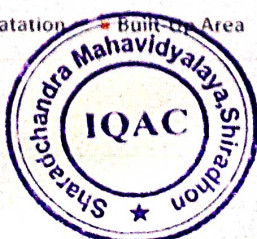
Observations :

At Present 69 % area campus is having the Green cover

Categories of Land Use



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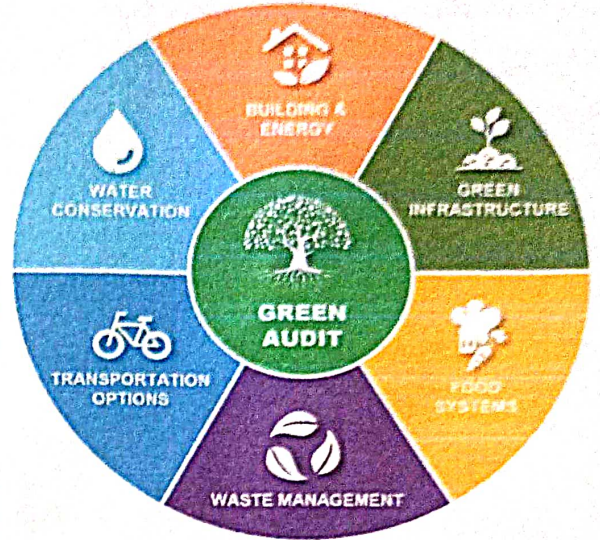
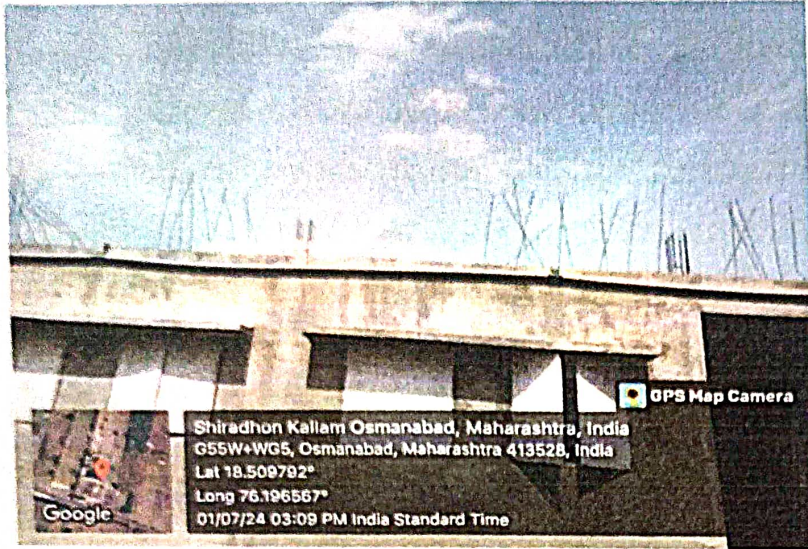


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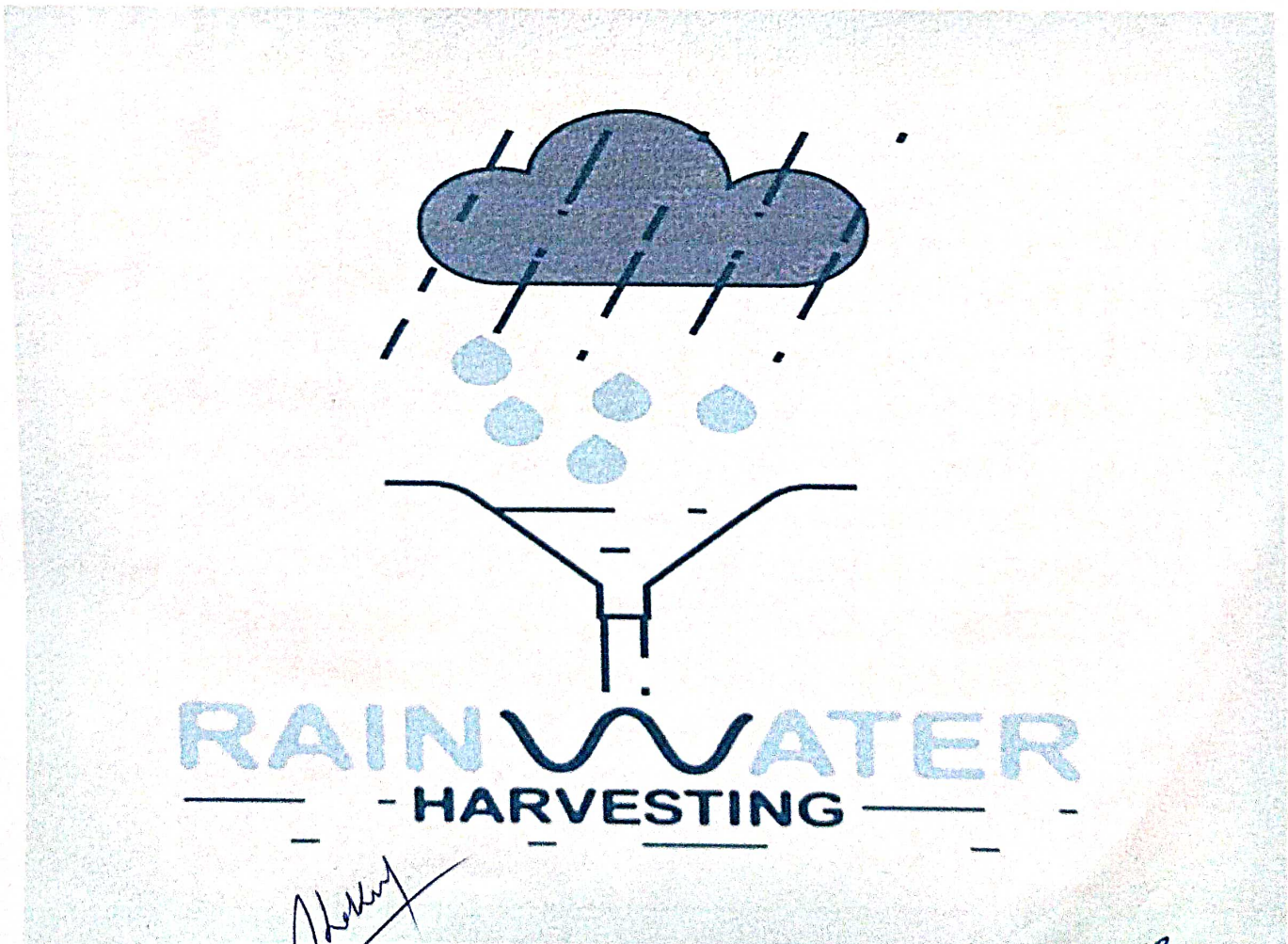
Chapter No. 4: Study of Waste Management

Rainwater Harvesting

The college is collecting, filtering and subsequently storing rainwater into reservoirs, tanks, and are used for various purposes.



Observations: The College has the facility of rain water harvesting pit.



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Solid waste management

The college is taking utmost care of cleanliness and hygiene. Daily waste is collected by the cleaning staff and segregated into degradable and non-degradable waste.



Environmental consciousness and sustainability friendly initiatives

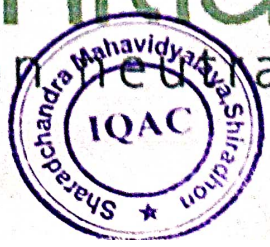
- The leaves, all non-toxic and biodegradable waste, are collected and used to make compost through the composting process, for which pit was made in the campus.
- Solid waste is generated in the form of plastic, glass, metal, newspapers, lab manuals, etc. is stored at one place and scrapped periodically for recycling.
- Non degradable waste (Dry and wet) is collected separately empty bottles, cartons are collected regularly at one place and handed over to the municipal vehicle for collection and proper disposal.



Observations: Institute has been done Good Management of the various types of

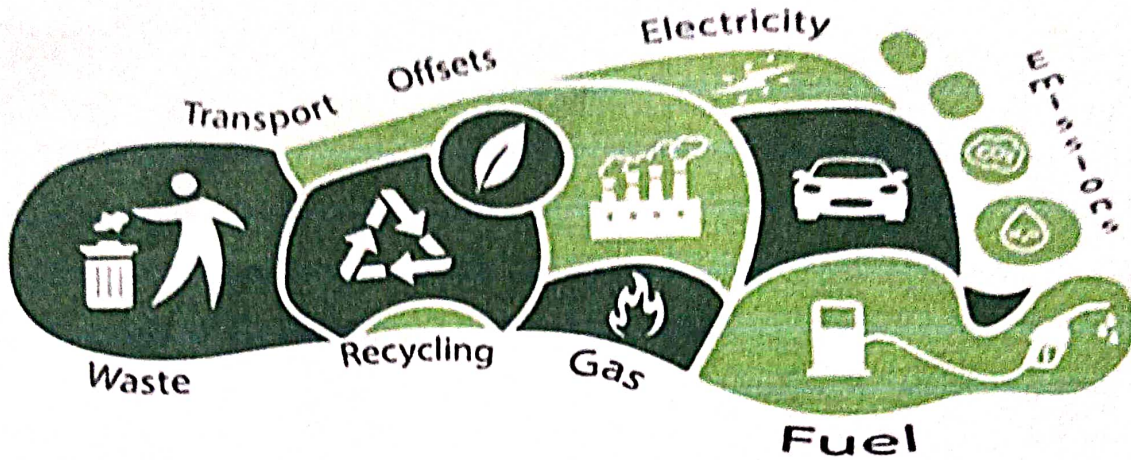
greeninitiative
For a carbon neutral planet

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Carbon Footprint is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities. The College Imports Electrical Energy during Night for various Electrical gadgets.



Basis for computation of CO2 Emissions:

The basis of Calculation for CO2 emissions due to Electrical Energy are as under
1 Unit (kWh) of Electrical Energy releases 0.8 Kg of CO2 into atmosphere

Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Annual Average Electricity Import details: 480 KWh/Year (Mahavitrans Bill)

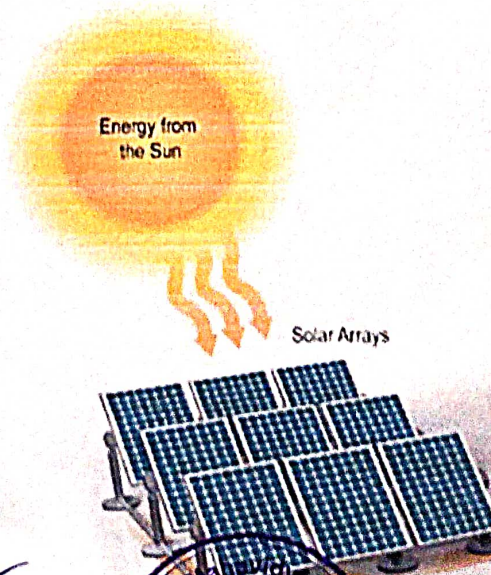
Observations:

The College Imports Electrical Energy during Night for various Electrical gadgets.

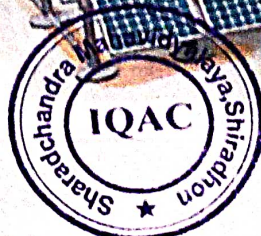
Average Annually Carbon Emission due to Electricity IMPORT = 408 Kg of CO2 into atmosphere.

Suggestions:

1. Install Rooftop Solar Power plant of 20 KW capacity
2. Install Occupancy Sensors to minimize losses in Lighting System



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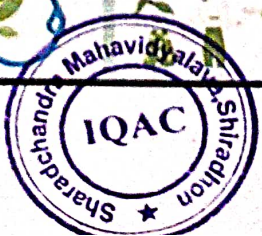
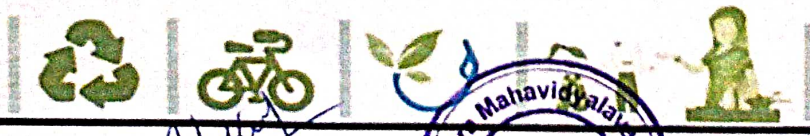
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Chapter No. 6 : Best Practices & Activities
Institute has been declared their Environment Policy

Policy Document On Environment and Energy Usage

- To install LED bulbs in the complete campus to save energy
- To operate institute building in most efficient energy manner.
- Maximum use of Renewable Energy.
- Encourage a culture of Energy conservation on campus.
- To take additional measures to continuously improve our energy consumption.
- To develop and maintain Energy Management System based on ISO: 50001.
- To encourage use of advanced technology to minimize energy consumption.
- To engage in dialogue with the government agencies, and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To provide information and training opportunities on energy saving measures.
- To train our employees and students through our Enviro Club to make them 'Go Green Specialists' and partners to plant trees each year.

Principal



Best Practices & Activities

Several significant and fruitful awareness programs both students and staff of the Campus are arranged every year in the campus. Reflections from students are Evident how effective such awareness programs conducted in the campus. Major programs conducted in the campus during the last Five years.

Campaigns: Green Club Activities

Nature camps, field trips and some of these activities are year round programs and others are regular year wiser semester wise or any other stipulated time bound programs.



GPS Map Camera

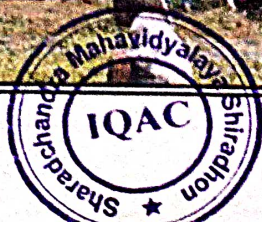
Osmanabad, Maharashtra, India
 G55W+RGQ, Maharashtra 413528, India
 Lat 18.509607°
 Long 76.196482°
 12/03/24 12:57 PM GMT +05:30

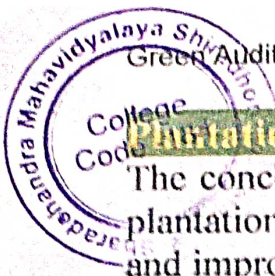
Google

Environmental education through systematic environmental management approach.



GPS Map Camera





Plantations at institute

The concept behind the tree plantation initiative was to convey the message that tree plantation helps in maintaining a clean eco-friendly environment and reduces pollution and improves green environment.



Latitude: 18.50964
Longitude: 76.196256
Elevation: 684.81±6 m
Accuracy: 8.3 m
Time: 11 August 2022 11:34
Note: शरदचंद्र महाविद्यालय, शिरादोण

Powered by DataCam

एक काम
देश के नाम



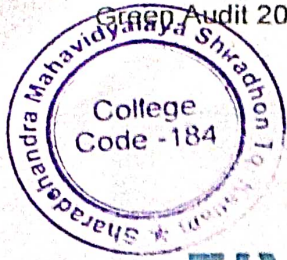
Let's nurture
Mother Earth
for a
better future.

Follow us on






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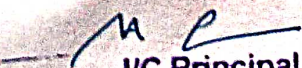


FIVE WAYS TO CONTROL CLIMATE CHANGE

 <p>GREEN YOUR COMMUTE</p>	<p>Explore new options to commute and reduce your carbon footprint. Choose to walk, share car, ride bicycle, or electric vehicle.</p>
 <p>CONSERVE FUEL</p>	<p>Stop the reckless of fuel and use it more sensibly. Conserving fuel reduces pollution for a cleaner and greener environment.</p>
 <p>GET AN ENERGY AUDIT DONE</p>	<p>Get an energy audit done to determine the overuse of energy.</p>
 <p>PLANT TREES</p>	<p>Plant trees and support reforestation. This way CO₂ level will be decreased, as trees use sunlight to absorb carbon dioxide from the atmosphere through photosynthesis and store it as carbon in the form of wood.</p>
 <p>REDUCE, REUSE & RECYCLE</p>	<p>Reduce paper use, reuse whatever you can and recycle waste materials into a valuable resource. Be an environmentally conscious consumer.</p>

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