

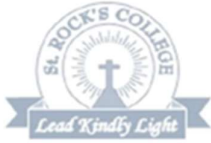


## GREEN AUDIT 2023-24

### *ST. ROCK'S DEGREE COLLEGE OF LAW*

Prepared by:

Vrindavan Landscape & Ecological Solutions

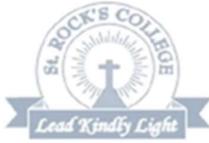


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# CERTIFICATE

Government of India GST REG-06ORG:NO: 27AQJPM2803Q1ZD  
Ccerti.no: VLAES/23/19




**GREEN AUDIT CERTIFICATE**

**ST. ROCK'S DEGREE COLLEGE OF LAW**

M.M.C. School Building, Telepakhadi, Eksar Village, Borivali West, Mumbai, Maharashtra 400092.

*Has successfully undergone the "GREEN AUDIT" during the period 2023-2024  
Under our supervision and the efforts taken by the management and faculty towards the green  
campus are highly appreciable.*

**Given on: May 27, 2024**

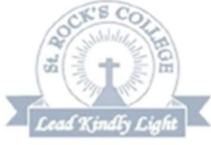
 Nurture nature, and nature will nurture

Project Head  
Vrindavan Landscape & Ecological Solutions

UDYAM-MH-19-0065047

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## ACKNOWLEDGEMENT

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VLAES Alliance Services would like to thank the management of St. Rocks Degree College of Law for assigning this important work of Green Audit. We appreciate the co-operation to the teams for completion of assessment.

We would also like to thank Adv. Ms. Arpita Sanjay Shirke – Coordinator, IQAC, for her continuous support and guidance, without which the completion of the project will not be possible. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

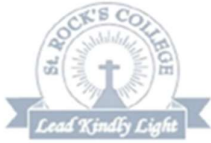
We are also thankful to

Dr. Shwetal Sajjan Patil. Principal - Member, IQAC Ms.

Shri. Rajendra D. Desai, Chairman - Member, IQAC Ms.



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## DISCLAIMER

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VLAES Alliance Services Audit Team has prepared this report for St. Rocks Degree College Of Law based on input data submitted by the representatives of college complemented with the best judgment capacity of the expert team.

While all sensible care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

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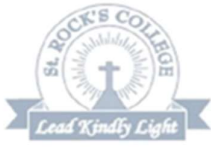
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## CONCEPT AND CONTEXT

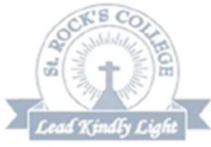
The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory from the academic year 2019–20 onwards that all Higher Educational Institutions should submit an annual Green, Environment and Energy Audit Report. Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through Carbon Footprint reduction measures.

In view of the NAAC circular regarding green auditing, the College management decided to conduct an external environment assessment study by a competent external professional auditor. The green audit aims to examine environmental practices within and outside the College campus, which impact directly or indirectly on the atmosphere. Green audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of college/college environment. It was initiated with the intention of reviewing the efforts within the institutions whose exercises can cause risk to the health of inhabitants and the environment.

Through the green audit, a direction as how to improve the structure of environment and inclusion of several factors that can protect the environment can be commenced. This audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the institution. The concepts, structure, objectives, methodology, tools of analysis, objectives of the audit are discussed below.



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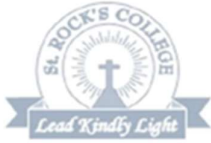
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## INTRODUCTION

Now a days, the educational institutions are becoming more thoughtful towards the environmental aspects and as a result new and innovative concepts are being introduced to make them sustainable and eco-friendly. To preserve the environment within the institution, a number of viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the saving the energy, waste recycle, water consumption reduction, water harvesting and many more...

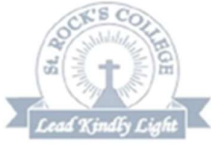
The activities carried out by the institution can also create adverse environmental impacts. Green audit is defined as an official inspection of the effects a college has on the environment. Green Audit is conducted to evaluate the actual scenario at the institution campus. Green audit can be a useful tool for a college/college to determine how and where they are using the most of the energy or water or resources; the College can then decide how to implement changes and make savings. It can also be used to determine the nature and volume of waste, which can be used for a recycling project or to improve waste minimization plan.

Green auditing and the application of mitigation measures is a win-win situation for all the institutions, the learners and the mother earth. It can also result in health awareness and can promote the environmental awareness, values and beliefs. It provides a better understanding to staff and students about the green impact on institution. Green auditing also upholds financial savings through reduction of resource usage. It gives an opportunity to the students and teachers for the development of ownership of the personal and social responsibility. The audit process involves primary data collection, site walk through with the team of college/college including the assessment of policies, activities, documents and records.



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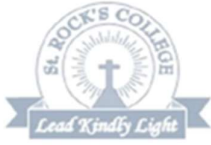
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# INTRODUCTION



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## **OVERVIEW OF THE COLLEGE**

St. Rocks Degree College of Law, located in the Borivali, Mumbai. It was established in 2017. St. Rocks Degree College of Law is built in warm red brick with cool and spacious corridors.

St. Rocks Degree College of Law offers to provide excellent quality of legal education as well as looks after the overall development of students. The faculty, renowned for its meritorious profile and versatile talent, is dedicated to the cause of liberal education.

The College has always maintained high academic standards. More significantly, it has provided students an enabling and creative environment to freely develop and express views that help them respond to changes in society.

The institute offers Degree courses including UG programs.

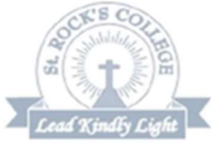
College has built up area is approx. 25000 sq. feet. and surrounding area of 25000 sq. feet with state-of-the-art infrastructure, well-furnished classrooms and seminar hall. College building comprises of three floors with well-maintained ladies and gents' washrooms. Water coolers are provided on every floor of college building. It is located in the partly rural areas of Raigad district in Kokan region of Maharashtra state. The building has huge windows and corridors for excellent ventilation and natural light source.

One lifts and one staircase for easy dispersal of children during any emergency. Each floor has washroom and washbasin with water filter (aqua guard) at each floor.

Fire extinguisher at each floor near the staircase area, inverter and solar system, library with CCTV cameras all around the campus showing great security management.



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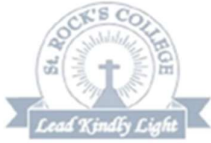
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**VISSION**

**“To educate the masses without discriminating people on the basis of the caste, creed and gender and to develop and nurture curiosity among students which help them to learn – How to Learn”**



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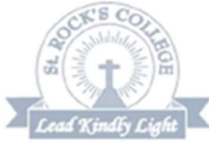
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MISSION

**“To provide value based, quality based and skill based education to help students develop leadership abilities, interpersonal skills and providing a safe learning environment”.**



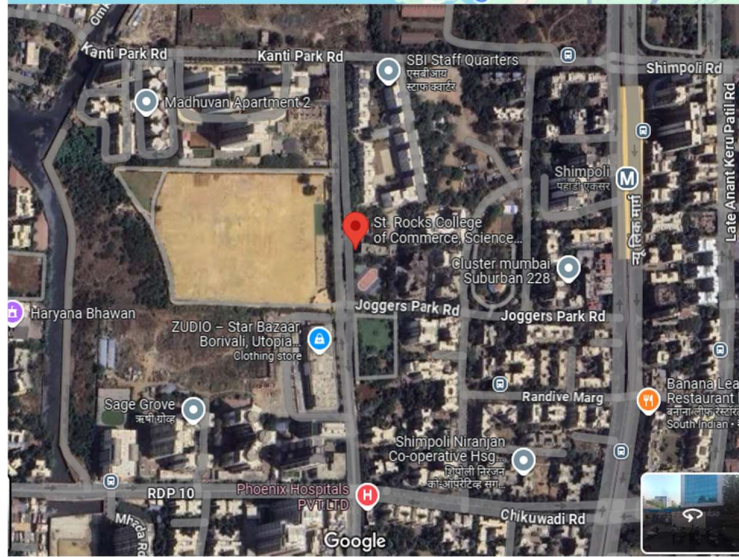
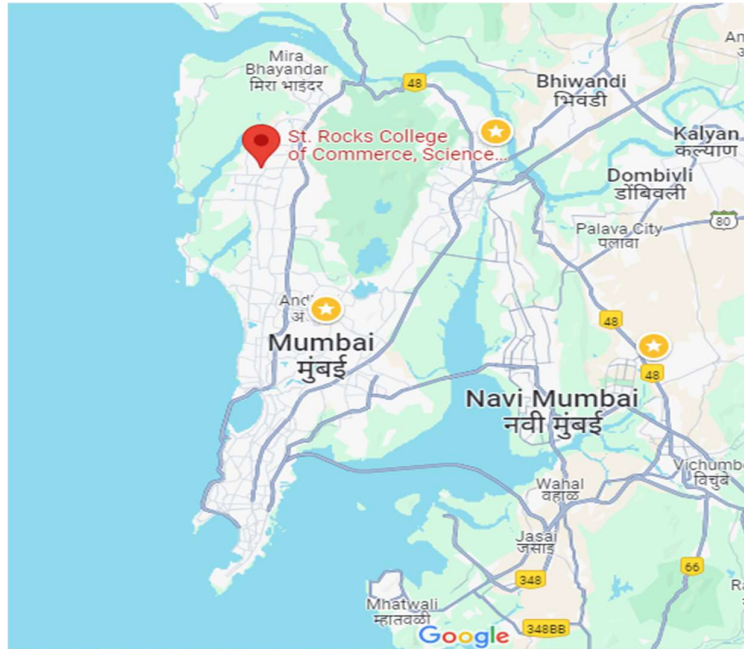
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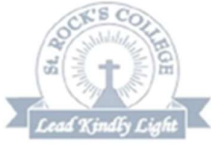
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## AUDIT PARTICIPANTS

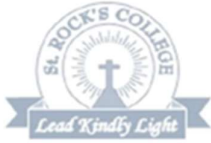
On behalf of college

Name - Designation/Department	
Dr. Shwetal Sajan Patil.	Principal
Adv. Arpita Sanjay Shirke	IQAC coordinator

On behalf of VLAES Alliance Services

Name	Position	Qualifications
MR. Deepak Mhatre	Lead Auditor	<i>M.Sc. (Botany), P.G.D. Horticulture.</i>
Ms. Latta Chaudhery	Co-Auditor	<i>M.Sc. (Botany), B. ED</i>





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## **EXECUTIVE SUMMARY**

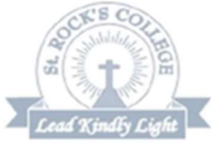
Green auditing is an essential step to identify and determine whether the institutions practices are sustainable and ecological. Traditionally, we were upright and efficient users of natural resources. But over the period of time, excessive usage of resources like water, electricity, petrol, etc. have become habitual for everyone especially, in urban and semi-urban areas. It is actually the right time to check if we (our process) are consuming more than required resources? Whether we are using resources sensibly?

Green audit standardizes all such practices and provides an efficient way to use natural resources. In the time of climate change and resource exhaustion it is necessary to re-check the processes and convert it in to green and sustainable. Green audit provides an approach for it. It also increases overall awareness among the folks working in institution towards the eco-friendly environment.

This is the first attempt to conduct green audit of this College campus for fulfilment of NAAC criteria. This audit was mainly focused on greening indicators like consumption of energy in terms of electricity and fossil fuel, quality of soil, water usage, vegetation, waste management practices and carbon foot print of the campus. Initially a questionnaire was shared to know about the existing resources of the campus and resource consumption pattern of the students and staffs in the College.



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# GREEN AUDIT - ANALYSIS

## 1.1 GENERAL INFORMATION

### 1. Does any Green Audit conduct earlier?

*No, this is the first external audit organized by the college*

### 2. What is the total strength (people count) of the Institute?

#### Students

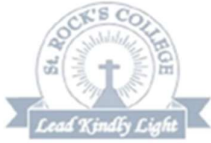
Male: 259    Female 203    Total 462

#### Teachers

Male :06    Female: 09    Total: 15



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### 3. What is the total number of working days of your campus in a year?

*There are one hundred eighty working days in a year.*

### 4. Where is the campus located?

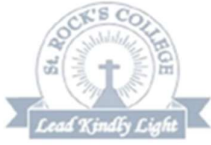
*33FW+FH7, Sector 17, Talaja Panchanand, Talaja Phase 2, Talaja, Navi Mumbai, Maharashtra 410208*

### 5. Which of the following are available in your institute?

<i>Garden area</i>	<i>Available</i>
<i>Playground</i>	<i>Available</i>
<i>Kitchen</i>	<i>Available</i>
<i>Toilets</i>	<i>Available</i>
<i>Garbage Or Waste Store Yard</i>	<i>Available</i>
<i>Laibrary</i>	<i>Available</i>
<i>Parking</i>	<i>Available</i>
<i>FacilityGuest House</i>	<i>Avialable</i>



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**6. Which of the following are found near your institute?**

*Municipal dump yard*

*Not in vicinity of institute*

*Garbage heap*

*No Garbage heaps*

*Public convenience*

*Public convenience is available*

*Sewer line Stagnant  
water Open*

*No stagnant water*

*drainage*

*No*

*Industry – (Mention the type)*

*Yes*

*-*

*yes*

*Bus / Railway station*

*Metro/Bus connectivity*

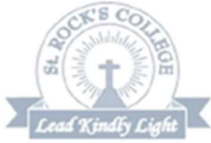
*Market / Shopping complex*

*Available*



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## 1.2 WASTE MINIMIZATION AND RECYCLING

### 1. Does your institute generate any waste? If so, what are they?

*Yes, Solid waste, Canteen waste, paper, plastic, horticulture, e-waste, etc.*

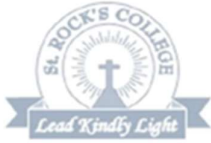
### 2. What is the approximate amount of waste generated per day? (in KG approx.)

*Biodegradable waste - 45 Kg*

*Hazardous Waste < 2 Kg  
Others - 2 Kg*



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### 3. How is the waste managed in the institute? By Composting, Recycling, Reusing, Others (specify)

- Composting is done for horticulture waste management.
- Hydroponics technique is used to recycle the grey water from college mess
- Aerobic Composting is done for bio-degradable waste management.
- One side printed Paper is re-used for internal communication.
- Solid waste is taken by Municipal Corporation after collecting the BTLC separately

### 4. Do you use recycled paper in institute?

YES

### 5. How would you spread the message of recycling to others in the community?

*Following are the ways through which college is spreading the awareness about recycling*

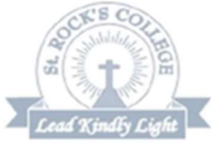
- Poster competition activities
- Campaigns

### 6. Can you achieve zero garbage in your institute? If yes, how?

*Not yet achieved. Possible through waste management policy and planning.*



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### 1.3 GREENING THE CAMPUS

#### 1. Is there a garden in your institute?

Yes, about 3477.35 Sq mtrs areas are developed as Gardens.

#### 2. Do students spend time in the garden?

Yes, students spend around 2-4 Hours during winters.

#### 3. Total number of Plants in Campus?

*Plant type with approx. count*

Full grown Trees	79
Small Trees	120
Potted plants	80

#### 4. Is the College campus having any Horticulture Department? (If yes, give details)

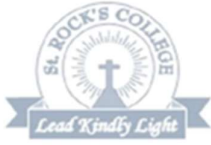
No

#### 5. How many Tree Plantation Drives organized by campus per annum?

Five tree Plantation Drives are Organized by campus in the last FY. Total 25 trees and 100hedge plants planted in this Financial Year with more than 85% survival rate.



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## 6. Is there any Plant Distribution Program for Students and Community?

*Yes, college has a practice where all guests are given a planter as a gift rather than a bouquet of flowers. Besides this landscape, Plantation is also done in Burari village by the college*

## 7. Is there any Plant Ownership Program?

No

## 1.4 WATER AND WASTEWATER MANAGEMENT

### 1. List uses of water in your institute

*Basic use of water in campus:*

*Drinking – 178.67 KL/month*

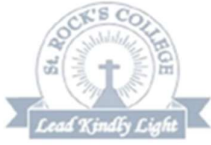
*Gardening – 372.47 Kl/month*

*Kitchen and Toilets – 1176.81 KL/month*

*Others – 228.49 KL/month*



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**2. How does your institute store water? Are there any water saving techniques followed in your institute?**

Sl. No	Storage Type	Capacity	Quantity	Total (in Liters)
1	OVER HEAD TANK	5000	1	20000
5	UNDER GROUND TANK (Fire tank)	20000	1	20000
	<b>TOTAL STORAGE CAPACITY</b>			<b>40000</b>

**Saving Techniques**

- Avoid overflow of water controlled valves are provided in water supply system.
- Close supervision for water supply system.

**3. Locate the point of entry of water and point of exit of waste water in your institute.**

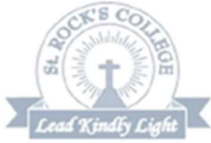
*Entry - Water comes from Navi Mumbai Municipal corporation (NMMC)*

*Exit- From Canteen, Toilets, bathrooms, Hostels and Labs through covered drainage which is connected to sewage*



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#### 4. Write down ways that could reduce the amount of water used in your institute

**Basic ways:**

- Close the taps after usage
- Water Conservation awareness for new students
- Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage

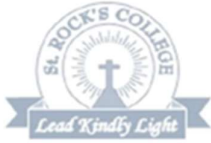
### 1.5 ANIMAL WELFARE

#### 1. List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)

*Approx. 20 species of Birds, 3 Cats, and 10+ butterfly species are found in campus. No stray dog is visible in the vicinity of the college. A variety of bird's species and other flora and fauna are available, so institute is doing their bit for bio diversity conservation.*



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## 1.6 CARBON FOOTPRINT - EMISSION & ABSORPTION

### 1. Electricity used per year - CO2 emission from Electricity

*(electricity used per year in kWh/1000) x 0.84* 581988.00 kWh/1000 x 0.84

=20992/1000 x .84

= 17.63 ton

### 2. LPG/PNG used per year - CO2 emission from LPG/PNG

*(LPG/PNG used per year in KG) x 2.99*

0 x 2.99

=0 x 2.99

=0 kg

### 3. Diesel used per year CO2 emission from HDS (Diesel)

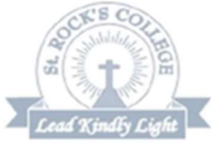
*(Diesel used per year in liters) x 2.68*

0 x 2.68

=0 x 2.68

=0 ton





#### 4. Transportation per year (car) CO2 emission from transportation (Bus and Car)

*College doesn't have any owned vehicles, so emission because of the transportation is Zero.*

**Total CO2 emission per year cumulative by electricity usage + bus and car transportation (3.024**

**+ 0 + 17.06 = 17.06 ton)**

#### CARBON ABSORPTION BY FLORA IN THE INSTITUTION

There are 79 full grown trees, potted plants are 80 and 180 small shrubs of different species, on the campus spread over 40 acres.

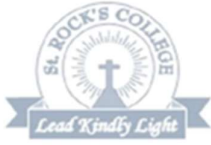
Carbon absorption capacity of one full grown tree 22 kg CO<sub>2</sub> Therefore Carbon absorption capacity of 793 full-grown trees 79 x 22 kg CO<sub>2</sub> = 1.7 tons of CO<sub>2</sub>.

The carbon absorption capacity of 260 semi-grown trees is 50% of that of full-grown trees. Hence the carbon absorption 260 x 6.8 kg of CO<sub>2</sub> = 1.78 tons of CO<sub>2</sub>

There are approximately Herbs Plants 12620 of various species being raised in the gardens and grown in the areas where no buildings are built Carbon absorption of bush plants varies widely with their species. Certain bushes absorb very high level of CO<sub>2</sub> where as some others absorb very low level of CO<sub>2</sub>. In the absence of a detailed scientific study, 200g of CO, absorption is taken per bush (in consultation with Environmental Science specialists). Based on this, total carbon absorption of bushes is 12620 x 200 g = 20.48 tons of CO<sub>2</sub>

Grand total of carbon absorption capacity of the campus is 20.48 tons.





## GREEN INITIATIVES BY CAMPUS

### ➤ Solid Waste Management

- Waste management is done by composting
- Recycling of used paper is carried out in paper recycling plant.
- There is ban on single use plastic and plastic crockery in the campus.

### ➤ Renewable Energy

- Solar power plant of capacity 7 KW is installed on building roof.
- College has signed an agreement with third party solar power provider for 1 MW.
- The college is using solar lights for street lights.

### ➤ Tree Plantation Drives

- Five plantation drives were carried out in the current year in the Campus.
- Plants survival rate is around 85%

### ➤ Air Pollution Reduction

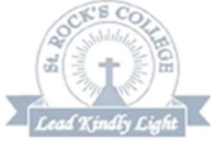
- Personal Vehicles (Students) are not allowed in the campus
- College is in process to pursue air quality monitoring by NABL approved lab.

### ➤ Environment Committee Initiatives – SRDCOL has an environment committee 'SRDCOL'.

Below are the highlights of their work on environment cautiousness.

- Poster Making (Handmade/Digital) and Essay Writing Competitions were organized on the topic 'Noise Pollution' in July 2021
- In August, the society organised 'Tie a rakhi, Nurture Nature' event on the occasion of Rakshabandhan in which the volunteers vowed to protect plants by tying handmade, eco-friendly rakhis to them.
- A webinar on 'The Importance of Mangroves to Environment and People: A Call to Action' was organized on 02 September 2021





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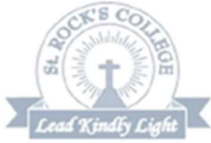
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- On 06 September 2023, the Garden Committee of St.Rocks Degree College Of Law along with SRDCOL, carried out a plantation drive in celebration of 'Poshan Week' (01-07 September 2023) by planting various saplings in and around the St. Rocks Degree College Of Law campus.
- To mark the occasion of 'International Day for the Preservation of the Ozone Layer' on 16 September 2023, SRDCOL organized a Slogan Writing-cum-Poster Making Competition on the theme of 'Montreal Protocol: Keeping us, our Food and Vaccines Cool'
- In celebration of Diwali, SRDCOL organized an eco-friendly Rangoli Making Competition on the theme: 'Say No to Fire-crackers'.
- In January, SRDCOL participated in the two phases of 'Swachh Action Plan' organized by Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India. In the first phase, SRDCOL members participated in the individual cleanliness drive- 'Gandhi Chadi' and the second phase involved a plantation drive 'Each One Plant One'
- SRDCOL organized a 'Presentation-cum-Video making Competition' on the theme of 'Air Pollution'
- In the month of March, SRDCOL launched an initiative of "Cleaning Our College Campus"

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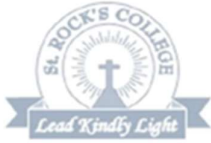


## **RECOMMENDATIONS**

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- Environmental parameters should be included in purchase policy to achieve a cradle to grave approach for sustainability.
  
- College should go for water balancing / audit for monitoring the use and wastage of water.
  
- Water Meter should be installed at every building of institute for monitoring of water consumption per capita.
  
- College should start drip irrigation to save water in campus
  
- College should increase the use of Sprinklers gardening purpose
  
- Flow rate of taps should be checked, it should not be more than 2.5 liters/minute.
  
- Increase plantation drives in nearby villages, local bodies, NGO and Municipal Corporation.
  
- Arrange training programmes on environmental management system and nature conservation for schools and local people.





- Establish an E-waste collection center in campus.
  
- Green building guidelines for future expansion projects of the campus

## **CONCLUSION**

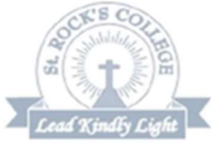
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This audit involves considerable team discussions and meetings with key staff members on a variety of environmental-related topics. The College (SRDCOL-) promotes conservation of resources.

Overall, 75% of college campus is for landscaping and 60% is green cover. The College makes a significant effort to act in an environmentally responsible manner and takes into account the environmental effects of the majority of its activities. The recommendations in this report suggests some more ways in which the College can work to improve its practices and develop into a more sustainable institution, despite the fact that it performs rather well overall.

It's important to begin a few things, such drip irrigation and checking the water flow from the taps. Additionally, we strongly advise installing water meters at each building/block and water balancing report.



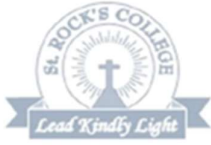


## REFERENCE

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- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices





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# ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS



E19°13'19"N 72°50'16"  
Eksar Village, Borivali West  
11-09-2023



E19°13'19"N 72°50'16"  
Eksar Village, Borivali West  
11-09-2023

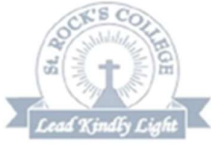


E19°13'19"N 72°50'16"  
Eksar Village, Borivali West  
05-06-2022



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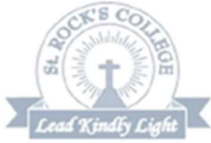


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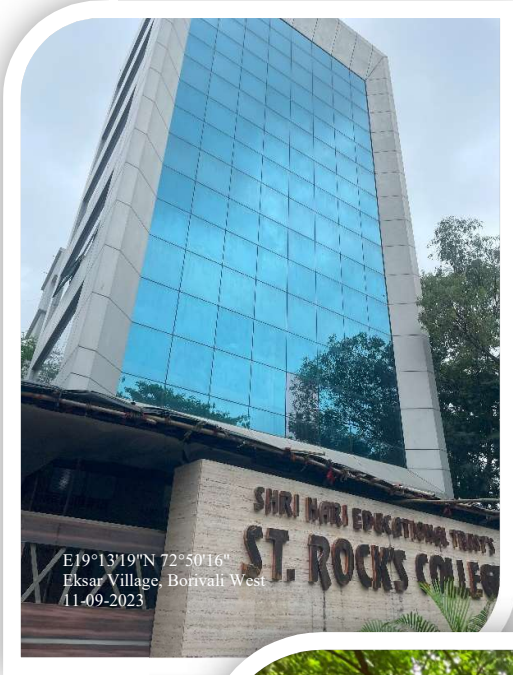




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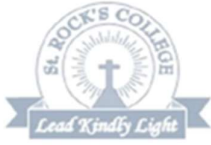
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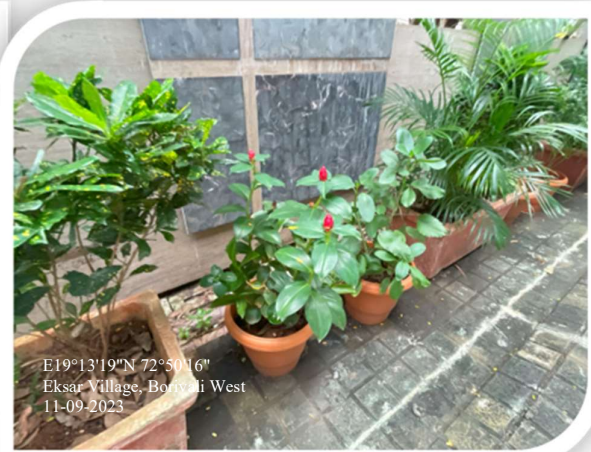
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- Rangoli 'Say No to Fire-crackers'.

