

Shri S. R. Bhabhor Art's College,
Singvad



Green Audit Report
2020-2021

Audit Report Co-ordinator

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Introduction:

Green Audit is a process of systematic identification, quantification, recordings, reporting and analysis of components of environmental diversity of any institution. It aims to analyze environmental practices within and outside of the institution, which will have an impact on the eco-friendly atmosphere.

Green Audit can be a useful tool for an institution to determine how and where they are using the most energy or water or other resources. The institution then can consider how to implement changes and make savings. It can also be used to determine the type and volume of waste. It can create health consciousness and promote environmental awareness, values and ethics. It provides Staff and Students better understanding of green impact on campus. Thus, it is imperative that this college evaluate its own contributions towards a sustainable future.

This report describes the status of environmental management at Shri S. R. Bhabhor Arts College, Singvad. The report provides an overall idea about existing conditions, efforts taken to make the area green complaint, increasing awareness amongst stakeholders etc.

Introduction: -

Name: Shri S. R. Bhabhor Arts College, Singvad

Address: Tal. Singvad, Dist. Dahod

Mail: singvadcollege@yahoo.com

Phone: 02677-230972

Longitude & Latitude: 22.9612°N, 73.9566°E

Available Area: 1 Acre 8 Decimal

Built-up Area: 1739.76 Sq. Mts.

1.1 Facilities:

- Total built up area around **1739.76 Sq. Mts.**
- Numerous Classrooms are available for variety of the classes.
- Adequate number of sanitary facilities separate for male candidates and female Candidates, Staff males and females are provided.
- Number of Stack rooms, study rooms are provided
- Library is available with lot of books collections and chronicles.

1.2. Environmental Management Program:

Annually Rs. 72,000/- budget is allocated towards environmental protection and pollution prevention activities. This includes plantation, monitoring expenses, treatment recurring costs etc. in addition to this, whenever there is any specific project or capital expenditure required for environmental protection, then institute provides it as per the needs.

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1.3. Environmental Policy

Shri S. R. Bhabhor Arts College, Singvad shows its sensitivity towards the environment by establishing its environmental policy.

1. The aims of the policy

The policy aims to eliminate or reduce all forms of environmental pollution and encourages all faculty members, staff, students and other stakeholders to do the same. The college always raises awareness of environmental issues among its staff/students/stakeholders and encourages initiatives leading towards a clean environment. Its academic departments, NSS unit, Women Cell works towards this aim collectively.

The policy promotes the 3 R's for waste in the following order: Reduce, Reuse and Recycle and provide convenient waste collection points and guidance for the disposal of

- a. Paper
- b. Cardboard
- c. Glass
- d. Plastic
- e. Electrical items and white goods
- f. Hazardous waste
- g. e-wastes

The college aims to minimize the consumption of water and thereby to contribute to the proper use of the natural resource by the following ways:

- Encouraging to report leaks and rectifying them promptly

- Progressively replacing/supplementing water-taps in the staff room, washroom, etc. if needed.
- Exploring options for using waste/roof water wherever possible
- Establishing rainwater harvesting schemes.
- Minimizes the consumption of electricity where opportunities arise
- Progressive replacement of light bulbs with energy efficient ones
- Encouraging staff to turn off electrical appliances when not in use
- Conserving energy by promoting the use of daylight
- Conducting frequent preventive and corrective maintenance

2. Audit Scope

The audit is carried out for the activities carried out in Shri S. R. Bhabhor Arts College, Singvad, Dist. Dahod Gujarat.

3. Audit Criteria

- a. Applicable guidelines of NAAC
- b. Applicable Environmental Legislation
- c. Best environmental practices

4. Audit Objective

In line with the audit definition, the objective of the audit is to have systematic, periodic, planned evaluation against objective evidences and reporting the results to the management as per the focus of the audit. Green

Audit focuses on the basis of the environmental sustainability in terms of applicable environmental elements like Air, Water, Land, Flora, Fauna, Natural resources and Human being. The very objective of this audit is to evaluate the institutes green performance based on the focus indicators as stated above in view of the goal towards Environmental Sustainability, applicable legislation, environmental policies and standards. The green audit objectives can be stated as follows:

- a. To review the knowledge and awareness concerns of the institute for the journey of sustainability.
- b. To review the efforts made to protect the environment by preventing pollution and conserving the natural resources being used in the campus.
- c. To establish a baseline data to assess future sustainability and avoid heavy environmental tolls.
- d. To bring out a status report on environmental compliance
- e. To assess the environmental performance and report it to management/authorities.

5. Audit methodology

The scope of the audit is divided into various environmental areas like Land use, water, effluent, sewage, energy etc. Each such area is analysed based on the evidences produced by the institute. The evidences are collected in form of discussions / interactions, documents and records, practical site conditions and photographs of it.

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6. Observations and Recommendations

6.1. Land Use

6.1.1. Land and efforts for green belt development

Available land is in the village with a limit of 1.8 Acres with 1739.76 sq. meters Built-up area. Rest of the land is covered by greenery with beautiful landscape. College has still some cultivation of ornamentals in gardening to have rich green effect.

6.1.2. Recommendations

As of now there is a count of the trees being planted. Localized species can be more used for plantation since they are more suitable to the local environment and habitat. It can become a habitat of the native birds, animals and insects and can help in biodiversity conservation and reclamation. A count of variety of species can also be kept handy. It can be treated as a structural biodiversity creation effort for achieving substantial positive results.

6.2. Water Supply

6.2.1. Sources

The main source of water supply for the institute is a bore well built in the college campus the water quantity required per day is around 15000 litres. The drinking water is provided through 150 litter's water treatment facility and thereafter to the dispensers at various locations for the ease of access to the students and staff. The drinking water is periodically tested and ensured its portability for drinking purpose.

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6.2.2. Recommendations

Further to the provisions of water in the institution, methods can be applied to use the rainwater harvesting water for drinking and sanitary purposes by advanced water treatments. Specific efforts for conservation of fresh water through auto water taps based on occupancy sensing mechanism

6.3. Energy

6.3.1. Energy Source

MGVCL is the major source of electricity. 15500 KWH is the requirement of the institute. The fulfilled with the MGVCL supply to the institute. In the terms of units, institute needs 350 units per month.

6.3.2. Recommendation

Periodic energy audits can be planned to have enough data on savings and contribution through use of green energy. Occupancy sensors can be planned to avoid manual intervention in shutting off and starting on the lighting systems in various rooms.

6.4. Sewage

6.4.1. Domestic sewage management

Domestic sewage is generated through the use of water for sanitary purposes. The sewage generated after the use is connected to the Gram Panchayat sewer lines.

6.4.2. Recommendation

Based on the population of each day and the daily water supply quantities, domestic sewage can be quantified for further water conservation purpose. Specific water audit can be conducted to know the water

inflow and out flow along with the losses, leakages, wastages etc. so as to plan actions for water conservation.

6.5. Solid waste

6.5.1. Solid waste management

Solid waste major sources are from stationary wastes. General solid waste is segregated as Dry waste & Wet waste and is collected and recycled by Gram Panchayat as per the Government Norms.

6.5.2. Recommendation

Institution should educate the students about the wastages and losses to the environment.

6.6. E-waste

6.6.1. E-waste management

Since the organization is well established and equipped with the necessary and up-to-date electronic infrastructure, the e-waste generation is very minimal. However, as a proactive initiative, an authorized vendor is identified for disposal of e-waste in case it is generated. Usually the contracts for electronic items are done with the buyback assurance so as to meet the e-waste disposal requirements of the legislation. E-waste after generation is segregated from other sources and kept separately identified for disposal in systematic way through the authorized vendors.

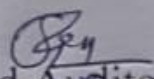
6.6.2. Recommendation

E-waste listing and quantification in detail can be useful further to reduce the e-waste generation.

Conclusion

The institute strives hard and sincerely towards conservation of environment. Starting with the Environmental awareness programs till the practical changes like Solar panel system installation to conserve energy. The institute has put lot of efforts in the waste water management also. It is noteworthy to say about the Compost Fertilizer Project and effective management of the environmental drives. It shows the commitment and responsibility towards the Mother Nature. There is always opportunities for improvements which are noted in the different sections for making the activities robust. These would help in the journey of sustainable development which already have been started and reached at a remarkable height.

Institute takes care of the students and staff well. The rooms are well ventilated and having sufficient light levels. There is no much noise that would disturb the education process.


परिचालन अधिकारी
विस्तार विभाग
Singvad