





GREEN AUDIT REPORT

2018-2024

PREPARED BY

Green Energy Audit

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AUDIT CERTIFICATE

PRESENTED TO

Government Science College, Vankal

Has been assessed by Green Energy Audit for the comprehensive study of envirnomental impacts on institutional working framework to fulfill the requirement of

GREEN AUDIT

The green initiatives carried out by the institution have been verified on the report submitted and was found to be satisfactory.

The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.

AUDITOR SIGNATURE

GREEN ENERGY AUDIT

08/07/2024 Date of Audit

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ACKNOWLEDGEMENT

Green Energy Audit would like to thank the management of Government Science College, Vankal 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 Dr. Anil Kumar Singh – 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

Prof. Rajesh M. Gohel - Member, IQAC

Dr. Kumarbhai G. Gamit - Member, IQAC

Dr. Vishal H. Rao - Member, IQAC

Dr. Hemalkumar P. Vankar - Member, IQAC

Prof. Vanraj D. Kagda – Member, IQAC

Dr. Mayuresh Kumar Mishra – Member, IQAC

Last but not the least, we would like to thank **Dr. Parthivkumar K. Chaudhari (Principal)**, for giving us an opportunity to evaluate the environmental performance of the campus.

DISCLAIMER

Green Energy Audit Team has prepared this report for College based on input datasubmitted 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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LEAD AUDITOR



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.



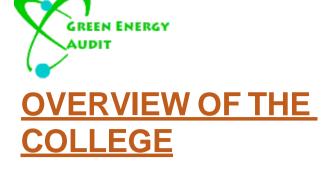


INTRODUCTION

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.



Located in the tribal region of South Gujarat, Government Science College Vankal is one of the premier public funded colleges in the state of Gujarat. The College was established by the Department of Education, Government of Gujarat in the year 2012 to provide and promote quality education to the youth coming from underprivileged tribal communities. The College is affiliated to the NAAC accredited "B++" Grade Veer Narmad South Gujarat University, Surat. The College campus is well connected by the road to major cities like Surat and Vadodara as the National Highway no. 8 is just 30 km from the College. The two major cities and airports of Gujarat namely Surat and Vadodara are just 65 km and 120 kms away respectively

Since its inception, the College has been playing a pivotal role in bringing about a marked change in the erstwhile underdeveloped tribal region by enrolling around a 1000 students every academic year. The students mostly come from the socially underprivileged tribal communities such Chaudhari, Vasava, and Gamit from the Talukas of Mangrol, Mandvi, Umarpada, Ankleshwar etc.

The College commenced its journey from the academic year 2012-13 in a rented campus of the ND Desai Higher Secondary School, Vankal with just four faculties comprising two in the Department of Chemistry, one each in the Departments of Zoology and Botany. Later on it shifted to the campus of the Government Arts and Commerce College, Vankal (presently Atal Bihari Vajpayee Arts ad Commerce College) in the year 2016. It was in the year 2017 that the College moved to its own campus which is located on the right side of the Mangrol-Zankhvav Road (State Highway 166). Since then, it has ever flourished as an infrastructurally well developed and academically sophisticated institution for higher education in the Sciences. Nestled in the valley of Banbha Dungar (Banbha Hills), the College has a three storey building consisting of various departmental labs empowered with modern Laboratory equipments, classrooms equipped with ICT tools such as Smart Board, Projectors with Screen and an Auditorium capacious enough to serve a gathering of around a thousand people. The College has a hall dedicated to Administrative activities along with the Principal's Office, a Computer Lab, and a multidisciplinary Library boasting of latest volumes on different scientific disciplines.

To provide holistic development of mental and physical health of the students, the College also has a gymnasium for indoor exercises complemented by a large playground for outdoor sport activities. The College promotes variety of sports such as Sprinting, Athletics, Boxing, Kabaddi, Kho-Kho and games like Cricket, Football, Badminton, Basketball, Hockey, Chess, and Carom etc. Despite being a science College, it provides ample space for the students to refine their artistic abilities through a well-structured open air performance arena.





At present, the College boasts of its academic excellence with highly capable and dedicated faculties well versed in their respective disciplines. All the faculties have gone through a rigorous procedure of selection by the Gujarat Public Service Commission and are well established in their respective area of expertise.

The College along with mainstream curriculum based studies provides the opportunities for the students to hone in their critical and creative skills through various cocurricular activities such as organizing Seminars, Conferences and Workshops on various topics of disciplinary as well as general importance. Various extra-curricular activities under the aegis of Saptadhara such as Model/Poster/Presentation, competitions of various kind like Painting, Rangoli, Traditional Dish Preparation, Mehadi, Thali Decoration. Celebrations like Annual Day, Science Day, International Tribal Day, and Plantation Program are part of an active and vibrant day to day work culture of the College. The students are well supported by different financial aides to go beyond the College campus and present themselves at National and International academic podiums. Regular tours to Zoological and Botanical Gardens, Pisciculture and Apiculture compounds, and Chemistry Labs in different parts of the country along with visits to the places of historic and cultural significance are organized by the College to provide the students exposure in various applied areas of scientific and cultural knowledge. Placement Fairs, Entrepreneurship Workshops are arranged annually to provide space for the students to be innovators and entrepreneurs in their coming future. The collective effort of the different organs of the College has been well recognized by various Governmental Agencies and a package of Rs 3 million was provided to the College in the 3rd quarterly of the year 2020 by the SSIP Cell of the Government of Gujarat to invest in research and innovation. The establishment of Standard Club supported by BIS, Govt. of India, and Eco Club:



The Rakshak, and Microbiology Society of India-Student Unit effectively displays the spread of curricular versatality that the College instills in its students. The diligence and academic brilliance of the students has produced rich dividends for the College as many students have qualified State as well as National and International level tests and examinations such TOEFL, CEPT, CSIRNET, UGC-NET, GSET and have got enrolled in the prestigious universities and institutes of repute such as M. S. University of Vadodara, Gujarat University and IITE, Gandhinagar. Several of the students also have qualified GPSC and UPSC examinations in various administrative and academic departments. The Department of Zoology of the College has produced four Gold Medalists at the University level out of which three have come in a row. Since the Academic Year 2019-20, Masters Programme is also being offered by the three Postgraduate Study Centres in the disciplines of Chemistry, Botany and Zoology.

NOISIN

To facilitate the tribal students of South Gujarat with the holistic and quality education; To prepare them for today's and tomorrow's challenges; To provide them with an education which they can utilize in their innovative, creative, and successful careers; To inculcate in them the capacity and the attitude to remain a source of pride for all Indians.

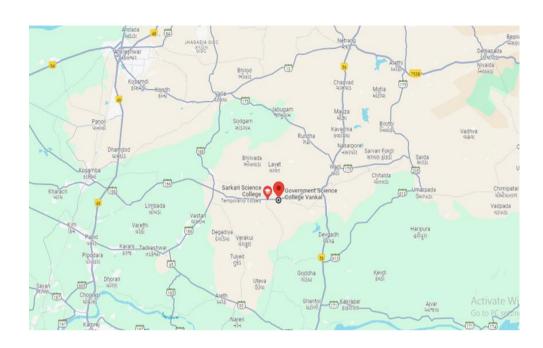


MISSION

We realize that having mutual respect and tolerance for the diverse views, understanding and paying heed to the issues of national as well as global importance builds the lifetime foundation for a student, therefore, we strive to provide the society with the intellectually competent, morally upright, spiritually inspired, and socially committed individuals who are capable of building a just human society, and who are also consistent with our nation's vision of realizing the plurality of thoughts and diversity of opinions.



Geo Location Geo Coordinates from Google maps: 21.43626, 73.25329



AUDIT PARTICIPANTS

Name - Designation/Department				
Dr. Parthivkumar K. Chaudhari	Principal			
Prof. Rajesh M. Gohel – Member , IQAC	Member IQAC			
Dr. Kumarbhai G. Gamit – Member, IQAC	Member IQAC			
Dr. Vishal H. Rao – Member, IQAC	Member IQAC			
Dr. Hemalkumar P. Vankar – Member, IQAC	Member IQAC			
Prof. Vanraj D. Kagda – Member, IQAC	Member IQAC			
Dr. Mayuresh Kumar Mishra – Member, IQAC	Member IQAC			



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.

GREEN AUDIT - ANALYSIS

1.1 GENERAL INFORMATION

1. Does any Green Audit conducted 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: 272 Female: 275 Total: 547

Teachers (including guest faculty) *Male:* 13 Female: 11 Total: 24

Non-Teaching Staff

Male: 0 1 Female: 0 3 Total: 04

Total Strength

Male: 14 Female: 14 Total: 28



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

There are two hundred thirty eight working days in a year.

4. Where is the campus located?

The campus is located in village Vankal, Ta. Mangrol, District Surat, a tribal region of South Gujarat,

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

Garden area Available
Playground Available
Toilets Available
Laboratory Available
Canteen Available
Guest House Available

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

Municipal dump yard Not available
Garbage heap No Garbage heaps

Public convenience Public convenience is not available

Sewer line Not available
Stagnant water No stagnant water

Open drainage No Industry – (Mention the type) No

Bus / Railway station Bus connectivity

Market / Shopping complex Available

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, laboratories waste, e-waste, etc.

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

Biodegradable waste - 20 Kg Non-biodegradable waste - 1 Kg



Hazardous Waste < 0.5 Kg Others – 0 Kg

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

- > Composting is done for horticulture waste management.
- Aerobic Composting is done for bio-degradable waste management.
- > Diluted solutions are used instead of concentrated solutions in laboratories
- Microbiological waste are incinerated after proper pretreatment.
- One side printed Paper is re-used for internal communication.
- Single use plastic is banned in the campus
- Paper recycling plant is installed in the campus

4. Do you use recycled paper in institute?

Yes, and there is fully functional paper recycling plant in the campus. Recycled papers are used as absorbent for blotting purpose in laboratories.

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
- Campus cleaning drive
- Cleaning drive in nearby villages

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

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

1.3 GREENING THE CAMPUS

1. Is there a garden in your institute?

Yes, about 5752 Sq mtrs areas are developed as Gardens.

2. Do students spend time in the garden?

Yes, students spend around 1 Hour during winters.



3. Total number of Plants in Campus?

Plant type with approx. count Full grown Trees 312 258 Shrubs 258
Hedge Plants 15
Grass Cover SQM 26072 Sq. Meter Shrubs

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

No, But we have Botany department which looks after the flora and landscape of campus.

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

Two tree Plantation Drives are organized by campus in the last FY. Total 38 trees plants planted in this Financial Year with more than 85% survival rate.

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

Yes, college has a practice where all quests are given a planter as a gift rather than a bouquet of flowers.

8. Is there any Plant Ownership Program?

We encourage our students to own a tree grown in our campus.

1.4 WATER AND WASTEWATER MANAGEMENT

1. List uses of water in your institute

Basic use of water in campus:

Drinking – 34.20 KL/month

Gardening – 93.30 Kl/month

Toilets – 40.50 KL/month

Others – 10.45 KL/month

Total = 178.45 KL/Month



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

There are total 192500 liters water storage of water and boosting within the College Campus.

SI. No	Storage Type	Capacity	Quantity	Total (in Liters)
1	OVER HEAD TANK	2000	1	2000
2	OVER HEAD TANK (Fire Safety)	5000	1	5000
3	OVER HEAD TANK	5000	2	10000
4	UNDERGROUND TANK	100000	1	100000
	TOTAL STORAGE CAPACITY			117000

Saving Techniques

- To avoid overflow of water controlled valves are provided in water supply system.
- We sensitize newly-enrolled students for water conservation.
- Sprinklers are used for gardening and grass cover.

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

Entry – We have a bore well to cater to the needs of water supply.

Exit - From Canteen, Toilets, and Labs through covered drainage which is connected to septic tank.

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. 18 species of Birds, 4 Cat, around 150+ Squirrels and 17+ 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.

2. Does your institute have a Biodiversity Program or a Eco Club?

Yes our institute actively organizes awareness through various campaigns and activities including seminars, poster competition, etc. Also a compulsory course related to Biodiversity is part of B.Sc. Program.

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 19421.00 kWh/1000 x 0.84 = 19421.00 /1000x0.84 = 16.31 ton

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

(LPG/PNG used per year in KG) x 2.99 494 KG x 2.99 = 494 x 2.99 =1.62 ton

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

No use of Diesal

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 + LPG (16.31 + 1.62) = 17.93 ton

CARBON ABSORPTION BY FLORA IN THE INSTITUTION

There are 312 full grown trees and 258 Shrubs of different species, on the campus spread over 5.73 acres.

The carbon absorption capacity of 258 shrub is 50% of that of full-grown trees. Hence the carbon absorption $258 \times 6.8 \text{ kg}$ of CO2 = 1.75 tons of CO2

There are approximately Hedge Plants 15 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 CO2 where as some others absorb verylow level of CO2. In the absence of a detailed scientific study, 200g of CO, absorption is taken perbush (in consultation with Environmental Science specialists). Based on this, total carbon absorption of bushes is $15 \times 200 \text{ g} = 0.003$ tons of CO2

The lawns on the campus have buffalo grass, Mexican grass and indigenous grass species and cover a total area of 280636.67sq. ft. Carbon absorption capacity of a 10 sq. ft. area of lawn is 1 g per day Therefore, carbon absorption by lawn area $280636.67 \times 365 \times 0.1 \text{ g CO2} = 11.29 \text{ tons CO2}$ per year.

Grand total of carbon absorption capacity of the campus is 20.613 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 1 KW is installed on building roof.

> Tree Plantation Drives

Two plantation drives were carried out in the current year in the Campus.



Plants survival rate is around 85%

> Air Pollution Reduction

- o Personal Vehicles (Students) are not allowed in the campus
- o College is in process to pursue air quality monitoring by NABL approved lab.
- ➤ Environment Committee Initiatives Our college has "Saptdhara Committee". Below are the highlights of their work on environment cautiousness.
 - On 28 March 2023, our college carried out a plantation drive by planting various saplings in and around the College campus.
 - On 11 July 2023, our college carried out a plantation drive by planting various saplings in and around the College campus.
 - On 29 September 2022 College celebrate Climate Change Youth Outreach Fortnight Programme.
 - o On 20 March (2019, 2020, 2021, 2022, 2023) College had celebrated World sparrow day and distributed sparrow house to students.
 - On 03 March (2019, 2020, 2021, 2022, 2023) College had celebrated World Wildlife day.
 - o On 02 Feb 2020 our college had celebrated World Wetlands Day.



RECOMMENDATIONS

- ➤ Environmental parameters should be included in purchase policy to achieve a better 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 Installed Water Level Controllers in water Tanks to avoid wastage.
- For Better Pollution control, College can pass the Chemical Exhaust of Chemistry Lab through Scrubber.
- Flow rate of taps should be checked, it should not be more than 2.5 liters/minute.
- Increase plantation drives along college Playground Boundaries and nearby villages. Playground trees gives shades to sports person.
- Arrange training programmes on environmental management system and nature conservation for schools and local people.
- Establish an E-waste collection centre in campus.
- > Green building guidelines for future expansion projects of the campus



CONCLUSION

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

Overall 75% of College campus is for landscaping and 70% 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

- ➤ 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



ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS



Well ventilated building structure



Lush green campus



Sprinklers for water conservation



Paving stone installation in the college



Play Ground



Ornamental Plants in campus





Green Grassland



Classrooms as per NBC guidelines with more than 40% window ratio



Save Water Posters at various places in campus



Color coded dustbins



Plantation Drive by students



Cleanliness Drive







Rain water storage tank

Vermicomposting

****** END OF THE REPORT ********

