



**B.V.V Sangha's
Basaveshwar Commerce College, Bagalkot**

Criterion VII

INSTITUTIONAL VALUES AND BEST PRACTICES



Green Audit Report

NTLR

B.V.V.Sangha's
Basaveshwar Commerce College, Bagalkot

Green Audit Report 1-8-2022 to 31-8-2023



Report Generated by NICHROME TESTING
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INTRODUCTION:

Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings.

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyse environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. It can create health consciousness and promote environmental awareness. It provides staff and students better understanding of Green impact on campus.

Hence its important that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation and the role of higher educational institutions vis a vis environmental sustainability is more prevalent.

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. 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.

PREAMBLE:

The policy statement for abatement of pollution (1992) and the subsequent Environment Protection Act 1986 announced by the Government of India seeks integration of environmental considerations into decision making at all levels. Environmental Audit has been recognized as one of the instruments for achieving this objective.

An Environmental statement is an objective assessment, of the extent of compliance of a company with applicable Environmental laws and regulations. It is based upon a review of pertinent records and technical data. The Environmental statement achieves following purposes,

1. Assuring compliance with various Governmental regulations,
2. Reduces environmental risks and liabilities,
3. Cost savings or increasing the efficiency of operations,
4. Identifies environmental liabilities, if any.

Accordingly, the survey was carried out to review the operations, to collect relevant data like materials consumption, water consumption, waste generated and the pollution prevention method practiced by the Organisation etc. Further improvement plans of the Organisation during the financial year were also noted.

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OBJECTIVES

The Green audit helps in pollution abatement, safety, health and conservation of natural resources focusing attention on areas of concern, practices that need to be changed and plans to deal with adverse effects. The audits would also facilitate the promotion of environmental awareness by companies by framing of proper environmental policies and effective management systems to implement them to achieve sustainable development.

The objectives of an environmental audit in an Organisation can be summarized as follows

1. To determine the consumption of various materials used and the performance of various operations so as to identify usage of materials in excess than required.
2. To identify the areas of water usage and wastewater generation and to determine the characteristics Of wastewater generated and its impact on the environment
3. To identify the areas generating Air pollution, To determine the emission, the sources, quantities and characteristics.
4. To determine the solid wastes, Hazardous wastes generated, Battery Waste, Plastic Waste, etc their sources, quantities and characteristics. and its impact on environment.
5. To identify the possibility of waste minimization, recovery and re-cycling of wastes.
6. To determine the performance of the exiting waste treatment/ control system so as to modify or install additional or alternative control equipment accordingly.

METHODOLOGY:

The purpose of the green audit is to ensure that the practices followed in the campus are in accordance with the Green Policy of the country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.

BRIEF INTRODUCTION OF ORGANISATION:

The Basaveshwar Commerce College, Bagalkot is one of the prestigious institute of Basaveshwar Veerashaiva Vidyavardhaka Sangha, Bagalkot which was founded by His Holiness Shri Gurubasava Mahaswamiji of Bilur in the year 1906, with the opening of a Sanskrit Patashala.

It provided the impetus that propelled a sleepy little town into an Educational, Commercial and Industrial hub of this backward area of Karnataka state.

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Main Campus



Aerial View of the College Campus.



BASAVESHWAR COMMERCE COLLEGE

The Basaveshwar Commerce College is part of B.V.V.Sangha, which was established in 1970 with 50 students. The college has become predominant in the field of commerce and management education within a span of five decades. Basaveshwar Commerce College is the only independent commerce college in Bagalkot district. At present, nearly 1800 students are studying at the College. The college is offering various courses such as B.Com, B.B.A, M.Com and CA foundation course. The college has committed and dedicated faculty by large, it is committed for academic excellence and all-round development of the students. The Alumni of college are serving at their various capacities around the world. Some of them are leading chartered accountants, judicial officers, people's representatives, government officers, and entrepreneurs. In total Basaveshwar Commerce College is one of the outstanding colleges in Karnataka.

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Bagalkot, is a city in the state of Karnataka, India, which is also the headquarters of Bagalkot district. It is situated on branch of River Ghataprabha about 481 km (299 mi) northwest of state capital Bangalore, 410 km (255 mi) southwest of Hyderabad, and about 570 km (354 mi) southeast of Mumbai. The population of the urban agglomeration was 111,933 according to the provisional results of 2011 national census of India, and the city is spread over an area of 49.06 square kilometres (18.94 sq mi)[2] with an average elevation of 532 m (1,745 ft) above MSL.

Our Vision

Imparting Excellent Education and Training in Commerce and Business Administration, thereby earning a unique Distinction as Top-notch Commerce Institution in North Karnataka

Our Mission

Basaveshwar Commerce College was established in 1970 with a great mission of imparting professional education in commerce, Business Administration & Management at U.G & P.G. Levels.

The Broad Goal of the college is to respond to the ever-changing needs & expectation of Business Environment and Demands of the community by molding students into accountable citizens, developing a sense of Dedication, Social Conscience and Commitment.

Objectives of organisation

To bring out graduates of excellence, complete character and integrity to venture into right vocations, professions and entrepreneurship.

To harness the students potential through coordinated efforts and personal attention.

CORE VALUE

- Critical thinking and problem solving.
- Leadership.
- Encouraging and building student ability, character and creativity.
- Ethics: We believe in acting with honesty, courage, and trustworthiness.
- We value an institutional attitude and culture that promotes and supports total health and wellness of staff and students.
- Excellence: Maintain a high standard of integrity and performance leading to the achievement of academic and professional goals.

ENVIRONMENT PLEDGE

We, The Principal, staff and students, adopt responsible practices in our days energy use with due regard to the environment. We pledge to avoid using electrical power where not needed. We also pledge to use judiciously the electrical power by using Energy efficient products. We shall practice to switch off all appliances when not in use.

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PURPOSE

To realistically and comprehensively reduce energy consumption, assure acceptable indoor air quality, and improve energy efficiency on campus through methods that are consistent with a safe, secure, and inviting campus community. As outlined in this policy, Environment conservation will be accomplished by developing a proactive and progressive approach to providing energy efficient, responsible, and cost effective operations on campus. This policy will be reviewed and updated periodically as public awareness, management techniques, and technologies change.

APPLIES TO : Faculty, staff, students, and visitors.

CAMPUS : BVV Sangha's Basaveshwar Commerce College, Bagalkot.

We pledge to speak in open forums for the energy conservation first, Energy Efficiency next and eliminating of High Energy use appliances for better or low energy use one's.

We commit ourselves to the safe operation of all our needs, be it in classrooms, library, canteen, on road, off road, in-campus out-campus as well as at our place of stay.

We adhere to reduce environmental load by efficiently using resources, saving energy, reducing waste, encouraging material recycle, with special emphasize to minimising emissions of greenhouse gases, ozone depleting substance and particle matter. we endure to minimise environmental loads and adopt environmentally friendly technologies when ordering and purchasing necessary products and resources.

We endure to attend educational programs and promulgate our close friends and colleagues to follow suite.

We endure to ensure that we recognize the essence of this Energy use policy by actively and aggressively conducting workshops and training to all in environmental concepts.

We make wide ranging social contribution to close association with the students, teaching staff, administrative staff, housekeeping staff by disclosing Energy use (Star rating appliances) information and supporting minimized consumption of Energy.

ENVIRONMENT, OCCUPATIONAL HEALTH AND SAFETY POLICY

BVV SANGHA'S COMMERCE COLLEGE, BAGALKOT in its continual improvement shall be achieving Environmental, Occupational, health, and safety management system by

1. Providing good working condition and healthier environment to all employees
2. Optimum usage of natural resources by reducing, recycling and re using Prevention of pollution by minimizing waste generation and proper disposal of waste generated by all activities
3. Prevention of health and injuries by adopting safe working practices in all operations Comply with all applicable environmental requirements

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BAGALKOT WEATHER BY MONTH // WEATHER AVERAGES

	January	February	March	April	May	June	July	August	September	October	November	December
Avg Temperature (°C)	23.5	25.4	28	29.4	29.3	28.4	24.9	24.9	25.2	26.4	23.9	22.7
Min Temperature (°C)	16.8	18.3	20.8	22.7	23	22	21.6	21.3	21	20.6	18.4	16.6
Max Temperature (°C)	30.2	32.5	35.2	36.2	35.7	30.9	28.3	28.5	29.4	30.3	29.5	29
Precipitation / Rainfall (mm)	0	3	5	30	66	80	113	67	145	124	24	6

Date: 1992 - 2012
 The difference in precipitation between the driest month and the wettest month is 145 mm (5.7 inch). The variation in temperatures throughout the year is 6.7 °C (14.1 °F).

Source: <https://en.climate-data.org/asia/india/karnataka/bagalkot-21962/>

Average annual rainfall recorded is around 603mm.

Basic Activity : Education Activity : Commerce College with B.Com Facility.

Faculty : 58 Number of Students : 1650

LAND USE DATA

CATEGORIES OF LAND USE	AREA (m ²)
PLANTATION AREA	965 Sq.m
BUILT UP AREA (INCLUDE ROADS)	1350 Sq.m
TOTAL AREA	2315 Sq.m

WATER CONSUMPTION AND DISCHARGE

A. Water Consumption - 77,000 Lit /day

B. Waste water discharged to the Environment – 61,600 lit/day.

Waste Water is treated by Septic Tank + Soak Pit accordingly around different places around campus. A sewage treatment plant is proposed in future.

AMBIENT AIR QUALITY MONITORING DATA

Sl.No	Parameters	Results
01	Respirable suspended particulate matter (PM ₁₀) µg/m ³	52.4
02	PM _{2.5} µg/m ³	36.1
03	Sulphur di oxide µg/m ³	4.1
04	Oxides Of Nitrogen µg/m ³	6.4

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SOLID WASTE MANAGEMENT AND DISPOSAL

	Name of raw material	Quantity	Disposal
a	Papers for office use and news Paper	400 Kg per year	Sold for recycling
b	Dry leaves from plants	500kg per month	Treat for composting
c	Plastic+ Glass	2kg per month	Sent to Municipality dumping yard / recyclers
d	Other solid waste	2kg per month	Sent to Municipality dumping yard

SOLID WASTE MANAGEMENT

Objectives of the Program:

The main objective of the solid waste management system in the campus is to promote the Conservation and environment management in the Institute Campus. The purpose of the current Available system is:

- To introduce and aware students to real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.

Description of the Program

To achieve effective and sustainable implementation of the proper waste management practices, Awareness with participation is the key to be involved in the Solid and Liquid Waste Management Program of an institution. Some of the common solid wastes obtained include daily Garbage which includes used papers, card sheets, rubber waste, and plastics, cardboard

Materials, etc are collected and disposed off. Dustbins are located on various floors at various Locations such as classrooms, libraries, staffroom, administration offices, etc. This separated waste is then Collected by the Municipality garbage collecting van outside the Institute campus. Thiswaste is recycled by the Municipality . Liquid and semi solid wastes mainly consist of wastewater from staff pantry etc. are disposed off through sewage systems having a network of undergroundpipes by Bagalkot Municipal Corporation.

WASTE DISPOSAL:

Waste disposal are the activities and actions required to manage waste from its inception to its final disposal. This includes the collection, transport, treatment and disposal of waste, together with monitoring and regulation of the waste management process.

The waste from all around the college is separated daily as wet and dry waste in different bags which are disposed separately. Dry waste includes paper, cardboard, glass tin cans etc. on the other hand; wet waste refers to organic waste such as vegetable pads, left-over food etc. Separation of waste is essential as the amount of waste being generated today causes immense problem. The material was composted and evaluated as a fertilizing material. Disposal of these waste results in the production of good quality organic manure that can be used as soil amendments and source of plant nutrients.

By reusing or recycling we are contributing to the conservation of natural resources, saving energy, helping to protect the environment, reducing landfill. We will also reduce our impact on the environment by minimizing the carbon emissions associated with both disposing of old products and obtaining new ones. Our Organisation adopts environment friendly practices and takes necessary actions such as energy conservation, waste recycling, trying to be carbon neutral etc. The biological reusable waste are processed as organic manure for the plants available in the college campus and the other solid waste generated in the college campus is disposed to vendors and wherever required pollution control approved vendors

Organic Waste Management and Waste Disposal Bins



Hazardous Waste Management :

[As specified under Hazardous waste (Management & Handling) & Trans Boundary Movement Rules – 2003]

Hazardous Waste	Total quantity	Disposal
Used Oil From DG sets & compressors	2 KL/Annum	Stored in secured containers and disposed to KSPCB approved vendor whenever the waste oil is removed from DG set

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Green Cover:

Our Organisation is within the geo-position between latitude 16.1834077° N and longitude 75.7046074° E in Northern Karnataka, India. It encompasses an area of about 2315 Sq.m. The area is immensely diverse with a variety of tree species performing a variety of functions. Most of these tree species are planted in different periods of time through various plantation programmes organised by the authority and have become an integral part of the college. The trees of the college have increased the quality of life, not only the college fraternity but also the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Many species of birds are dependent on these trees mainly for food and shelter.

Different species display a seemingly endless variety of shapes, forms, texture and vibrant colours. Even individual trees vary their appearance throughout the course of the year as the seasons change. The strength, long lifespan and regal stature of trees give them a monument – like quality. A thick belt of large shady trees in the periphery of the college have found to be bringing down noise and cut down dust and storms.

It has got extreme climates. The highest temperature is recorded 42° C just prior to the onset of monsoon (around May- early June). Summer rain is normal, and is principally caused from late June to August. The climatic condition is suitable for a wide variety of flora and fauna to support its rich biodiversity.

The city has an average altitude of 808 feet or 246 meters from the average sea level. The climatic conditions bear a strong resemblance with the other cities in the northern part of Karnataka, India. The summers are usually very hot and the winters are cold. The summers are prevalent during the months of February to May and cold season between November to January. There is onset of Monsoon in May end and continues to September.



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OTHER INITIATIVES

THE INSTITUTIONAL INITIATIVES FOR GREENING THE CAMPUS ARE AS FOLLOWS:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Ban on use of Plastic
4. landscaping with trees and plants

Use of bicycles by the students to save energy



RAIN WATER HARVESTING

1. Rain water harvesting and utilization.
2. Bore well /Open well recharge
3. Maintenance of water bodies and distribution system in the campus



Image showing Rain Water Harvesting in the Institution


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MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS




HEALTH AND SAFETY AWARENESS ACTIVITIES


1. World AIDS Day Celebration and on its occasion Rally on AIDS/ HIV Awareness on 1-12-2017


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RED RIBBON CLUB



World Aids Day Celebration
HIV/Aids Awareness Rally held on Dec 01 2017



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RED RIBBON CLUB

HIV/AIDS AWARENESS

BALLY

Date-30-01-2018

Time-11:00am

Venue-Mallapur village

Inauguration by

Prof-Smt. S H. Shettar principal

Chief Guest

Dr. J. V. Chavan Co-ordinator HSCAC

Guest

Prof M V. Jitshaddi HCS pro-officer

Well-Come to All

Organizer

Dr. M P. Goudagatti HSC Pro-Officer



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2. Mask Awareness Rally on 23-10-2020 by the Principal and staff of Basaveshwar Commerce College



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3. NSS Unit Covid – 19 Awareness Program

B. V .V . Sangha's
Basaveshwar Commerce
College, Bagalkot
NSS Unit Organization's Covid-
19 awareness Program By
Volunteers.. 🇮🇳 🇮🇳



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4. Blood Donation Camp


B.V.V. Sangha
BASAVESHWAR COMMERCE COLLEGE BAGALKOT

 RED RIBBON CLUB &  YOUTH RED CROSS

Inauguration of

Blood Donation Camp 

Date-19-03-2018 Time-11-00am

President
Shri .A.M. Sajjan(Bevoor)
Chairman, College Governing Council B.V.V.Sangha,Bagalkot

Chief Guest
Dr.M.M.Salimath
Principal,BVVS Ayured Medical Collage & Hospital,Bagalkot

Well-Come to All

Organizer
Smt.S H.Shettar Principal
Dr.M P.Goudaganvi .RRC & YRC Pro-Officer
Prof. Smt.G S.Shellikeri YRC Pro-Officer
Staff and Students,BCCB



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5. Awareness Programme on Yoga on 20-08-2018



6. No Tobacco Day by NSS on 31-05-2021



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7. World Environment Day 05-06-21 NSS



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OBSERVATIONS

Observations are as follows

1. Proper Water Balance needs to be continuously followed up to know the wastage of water and hence actions to be taken for reduction of wastage of water.
2. Waste water treatment plant (Sewage Treatment Plant) needs to be set up with modern technology for least energy consumption and reuse of the treated water in garden thereby reducing water consumption. Presently Septic Tank and Soak pit is the norm which should be discontinued and recycling of water to be introduced. This will reduce pressure on the ground water and can also develop the garden further.
3. Vehicle usage may be reduced in the campus which will reduction in CO2 emissions. Similarly pooling of members for vehicle usage will also reduce CO2 emissions.
4. Waste management be prioritized. Plastics be sold to plastic dealers and revenue generated. Similarly Paper be sold to paper factories, Waste oil from DG, Glass (if any), etc be sold and revenue generated.
5. More detailed study of Tree cover both Flora and Founa needs to be done.
6. Additional tree plantation needs to be done which will increase Flora Founa and Oxygen hence reducing Carbon Foot Print. Tree plantation be made a yearly event and type of plants be selected accordingly with the help of your Botany department
7. Vehicle usage may be reduced in the campus which will reduce CO2 emissions. EV vehicles may be encouraged. Similarly pooling of members for vehicle usage will also reduce CO2 emissions.
8. Energy wastages need to be arrested and switch over to well lighted buildings or LED usage (completed). To Change in phased manner the non energy efficient fans to energy efficient fans.
9. Saving of energy to be assessed and targets fixed YOY
10. Energy Audit to be followed with Energy Conservation e.g switching off lights and fans when not being used.
11. For Power factor improvement capacitor bank to be provided

12. Battery related improvements - Like ventilation, maintenance etc. Battery be given back to manufacturers only whenever replaced with proper discounts taken for the existing batteries.
13. Insulations to be checked across the campus and improvements to save energy
14. Illumination in rooms to be taken up to save energy.
15. Battery related improvements - Like ventilation, maintenance etc. Battery be given back to manufacturers only whenever replaced with proper discounts taken for the existing batteries.
16. Metalling of some of the roads need to be done for Air pollution which may occur especially during winter season.
17. Rain water harvesting to be taken up on serious footing. A proper storage pond or tank be constructed to store rain water and use back into college and / or construct recharge pits. This will also decrease the load on ground water and recharge the ground water. Recycling of water to be made a part of the environment mission
18. Signage's be put across the whole of campus (Safety, Environment, Botanical names, etc)
19. Next Audit, Carbon Foot print to be included and reduction of Carbon Foot Print to become a goal of the Organisation

Management / Staff / Student to work on the following areas for Green Initiatives

1. Water management – Includes surface water, ground water, rain water harvesting, ground water recharge, ground water quality to be considered for improvement, reduction in consumption, management of precious resources, treatment, reuse, recycle
2. Energy Management – Present Energy consumption, reduction in energy consumption, alternatives, solar water / power usage, lighting, ventilation.
3. Waste Management – Solid waste (Biodegradable / non biodegradable, usage, recycling, dumping, pollution due to solid waste.
4. Air Pollution – Air pollution due to various reasons, Dust generation, Metalling of roads, green cover all around, indoor air pollution, ventilation.

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ACTION PLAN SUMMARY:

- Make an action plan both short term and long term.
- Execute plan as per schedule. Invite subject experts if required.
- Organize in person, panel discussions and interaction to propagate the knowledge and for respective mitigation measures.
- Prioritize the initiatives
- Execute the plan on time in letter and spirit.
- Observe and record the benefits and shortcomings.
- Workout further improvement by involving the staff and students.

AUDITED TEAM AND THEIR CREDENTIALS**DR KRISHNA N KULKARNI** BE(Chem), MTech (Chem), PhD (Geology)**Environmental Expert**

In the Environmental Field for the last 25 years having completed many Audits of Colleges, Industries and their compliances as per Ministry of Environment, Forests and Climate Change, New Delhi. Also an expert in Design, Execution and Operations of Waste Water Treatment Plants

Shri Ramesh Upadhye B.Tech (Electrical Power)**Electrical Expert**

Former employee at POWERGRID (Central Government) and been in the field of Academics and Electrical Audits. Experience of more than 35 years

Shri Shrikantha Joshi BE(Civil)**Civil Engineering Expert**

Expert on design of Buildings, Audits in Civil engineering area. Experience of more than 25 years

Shri Kallappa Udhoji**Bachelor in Science (Chemistry)**

Formerly QA / QC Head - Lab Division, ADM Oil Industries. Analytical Expert and Incharge of Nichrome Testing Laboratory and Research Pvt Ltd Lab Section. Experience of more than 30 years

Organisation : M/s Nichrome Testing Laboratory and Research Private Limited

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Recognitions and Certifications :

- NABL Accredited,
 - MoEF & CC / CPCB Recognised,
 - ISO 9001 : 2015
 - ISO 45001 : 2018 Certified
- (Certificates Enclosed)

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