



Environmental Audit Certificate

Issued to: St. Aloysius College (Autonomous), Jabalpur

Audit Overview:

- **Audit Period:** Academic Year 2021-2022

Key Initiatives:

- Celebrated World Environment Day with activities like poster making and sapling planting.
- Produced 25 kg of vermicompost from 70 kg of organic waste.
- Organized an educational excursion to Bandhavgarh National Park.
- Conducted e-lectures on environmental topics and sustainable practices.

Laboratory Practices:

- Implemented effective biological and chemical waste management protocols.

Community Engagement:

- Participated in local cleanliness drives and anti-narcotics campaigns through the National Service Scheme.

Recommendations:

- Expand waste management initiatives.
- Increase frequency of community engagement activities.
- Integrate more environmental topics into the academic curriculum.

Certificate Issued by:



Awaneesh Nema & Associates

Issue Date: 24 October 2022



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR (M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT

Internal Quality Assurance Cell

Environment Audit Report

2021-22

Audit Committee Experts

Incharge: Dr. Harkirat Kaur
Department of Chemistry

Member: Dr. Amita Choubey
Department of Chemistry

Internal Member

Dr. Laxmikant Pandey

HoD, Biotechnology

Date of Audit: / / 2022

PRINCIPAL
St. Aloysius College (Autonomous)
JABALPUR- 482001 (M.P.)
INDIA



ST. ALOYSIUS COLLEGE, 1, AHILYA BAI MARG, PENTINAKA CHOWK, SADAR, CANTT,
JABALPUR, MADHAYA PRADESH, INDIA 482001



+917612620738



info@staloysiuscollege.ac.in

ENVIRONMENTAL AUDIT REPORT

2021-22

A crisis is unavoidable due to the rapid environmental degradation occurring at the local, regional, and global levels. There is a new problem today called "Environmental poverty." Reforestation, ecological restoration, adoption of environmentally sound and sustainable technology, and stabilization of the human population are essential components in building an egalitarian and sustainable future for all people in harmony with the environment.

The phrase "environmental audit" refers to a broad range of reviews that aim to find weaknesses in the management system's environmental compliance and to provide appropriate corrective measures. It strives to examine environmental policies both within and outside the concerned places, as these policies would affect the environment-friendly ambiance. An environment audit is a good technique to identify how and where the majority of the energy or water resources are used. Based on this information, modifications and cost-saving measures can then be considered. In order to better waste minimization plans or start recycling projects, it can also be used to determine the type and volume of garbage. Thus, in order for institutions to effectively respond to environmental concerns, academic leaders must spark and encourage the mobilization of both internal and external resources and expertise. St. Aloysius College is sincerely concerned and clearly thinks that there is an urgent need to address these fundamental issues and buck the trends of environmental deterioration.

St. Aloysius College is an institution of higher learning and research. The strategies and actions taken by the institution to address the environmental issues on the college campus are the foundation of this study. Our attempts to develop

environmental sustainability on campus have only begun with the current environmental assessment. St. Aloysius College has conducted a self-evaluation of the campus's environmental quality and is working on the following areas in an effort to maintain a perfect environment for future student generations.

1. Environment Day Celebration

The world environment day is celebrated every year on 5th June to raise global awareness to take positive environmental action to protect nature and the planet earth. It is a day that reminds everyone on the planet to get involved in environment friendly activities. Department of Zoology celebrated world Environment Day on 5th June 2022, Students and Teachers came together to pledge towards building a greener planet. They were asked to make poster on theme 'Save Environment and Save Life' and plant a sapling in small pots at their home to create a green corner. A lot of enthusiasm was seen in the students with saplings of different varieties of herbs and shrubs. The event was conducted successfully with whole hearted participation and awareness for a greener.

2. Solid waste management (Vermicomposting):

College has two vermicomposting pits of the size 4' x 3' feet under solid waste management. In the year 2021-22 college has produced 25 kg of vermicompost by using 70 kg organic waste. The college had organized the following activities under solid waste management system: **From 17 January 2022 to 2 February 2022**– Department of Zoology conducted a Vocational course “Vermicomposting as Sustainable Practice for Solid Waste Management in Jabalpur city”.

3. Educational Excursion to Bandhavgarh National Park

Zoology Department conducted Study Tour for Zoology UG & PG Students at Bandhavgarh National Park on 19 to 20 February 2022 to create awareness among students on wild life.

- **E-lecture on “Parthenium : An unwanted living being on 23rd August 2021”** - Nature Club in Collaboration with Department of Botany & Microbiology & Department of Zoology organized an e-lecture to mark 16th Parthenium Awareness Week {ICAR - Directorate of Weed Research (DWR)} focusing to make people aware about “Parthenium Free” land development. The eminent speaker, Dr. Naveen Patle, Additional Commissioner, DA & FW, & Executive Director, National Bee Board, Govt. of India, gave an insight into the history of parthenium, its effect on the human body and main crop, control of parthenium grass and its uses as simple compost and vermicompost. 116 participants of UG & PG students were benefitted.
- **Plantation on 24th September 2021** - A rose plantation was organized, focusing on the objective of creating awareness and mobilizing student engagement in environmental preservation and conservation. All the UG, PG students and teachers participated in this program. The nature club planted a total of 75 saplings of roses in the college campus garden. This programme has helped to connect students closer to nature and has taught them the value of an environmentally pleasant environment.
- **World Earth Day 22nd April 2022** - Nature club organized a Collage competition on the occasion of World Earth Day focusing on the motto “Save the Planet” with the aim of creating awareness among masses about global warming and climate change. The day encourages acting towards the safeguard of the environment and focusing on the need for conservation. The first three winners of the activity were awarded with certificates.

Hazardous waste disposable systems in Laboratories

Biological Waste Management:

a) Liquids containing Biohazardous Agents:

- Collection of liquids in leak-proof containers such as flasks or bottles.
- Liquid waste containers designed to withstand autoclaving temperatures is used when steam sterilization is utilized.

b) Solids Containing Biohazardous Agents:

- Non-sharp, solid laboratory waste (empty plastic cell culture flasks and petri dishes, agar plates, empty plastic tubes, gloves, wrappers, absorbent tissues, etc.) which may be, or is known to be, contaminated with viable biological agents should be collected in Waste plastic bags.
- For laboratories generating large volumes of agar gel in disposable petri dishes and tubes requiring sterilization, such waste is collected in specific Waste plastic in the laboratory. Autoclavable bags filled with plastic ware containing agar gel tend to leak fluids during and after the sterilization process.
- Any waste that has been autoclaved in Autoclave bags at the college is double bagged, twist tied or taped shut dispose properly.

Chemical waste Management:

- Acid-reactive compounds (e.g., cyanides, sulphides) which liberate gaseous products when acidified is not be mixed with any inorganic acid (e.g., sulphuric or hydrochloric acid).
- Organic acids (e.g., glacial acetic acid) are segregated from inorganic acids. Generally inorganic acids are oxidizing agents while some organic acids may be either reducing agents or combustible.
- Water reactive materials (e.g., sodium) is kept away from any water source.
- Oxidizers (i.e., any inorganic compound that assists fire such as hydrogen

peroxide, lead nitrate) is not mixed with organic materials (e.g., organic bases such as pyridine, aniline, amines, flammable solvents such as toluene, acetone) or reducing agents (e.g., water-reactive chemicals such as sodium).

6. Others:

1. NSS volunteers participated on clean India program on 02 oct 2021, organized by Nehru Yuva Kendra, Jabalpur.
2. NSS of St. Aloysius college organized a rally on Swachata and Nasa Mukti on 04 oct 2021.
3. NSS unit participated swachata activity organized by Smart City Jabalpur at Vikash Nagar Park on 28 sep 2021.
4. NSS unit participated for Plog Run organized by Smart City Jabalpur at Wright Town Stadium on 25 Dec 2021.
5. NSS unit of St. Aloysius College organized a cycle rally on 26 feb 2022 at St. Aloysius college to Pt. Ravi Shankar Shukla Stadium. In this event, 100 students participated.