



### Environmental Audit Certification

**Presented to St. Aloysius College, Jabalpur that** recognizes the successful completion of the Environmental Audit for the academic year 2020-2021, highlighting the college's outstanding commitment to sustainability and environmental stewardship.

#### Audit Details:

- **Audit Period:** Academic Year 2020-2021

#### Significant Accomplishments:

- **Organic Waste Management:** Processed 70 kg of organic waste into 25 kg of vermicompost.
- **Plastic Reduction Initiatives:** Eliminated the use of disposable plastic on campus, enhancing sustainability.
- **Hazardous Waste Management:** Improved disposal systems for biological and chemical wastes in college laboratories.
- **Eco-Friendly Transportation:** Encouraged faculty to adopt cycling, significantly reducing carbon emissions.

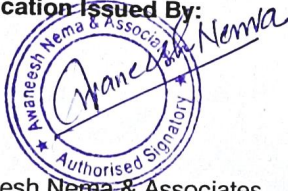
#### Environmental Initiatives:

- Conducted multiple activities to raise environmental awareness among the campus community, including competitions and educational programs.
- Implemented extensive tree planting to improve the ecological health and aesthetic of the campus environment.

#### Recommendations for Enhancement:

- Increase efforts in waste segregation and expand the capacity for vermicomposting.
- Broaden the usage of sustainable materials across all college operations.
- Continue promoting and developing eco-conscious habits among the college community.

#### Certification Issued By:



Awaneesh Nema & Associates

**Issue Date:** 15 Sept. 2021



**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**

## **ENVIRONMENTAL AUDIT REPORT**

**2020-21**

Due to rapid environmental degradation at local, regional and global level a crisis is inevitable. Now a days there is a new issue arising known as “**Environmental poverty**”. Stabilization of human population, adoption of environmentally sound and sustainable technologies, reforestation and ecological restoration are crucial elements in creating an equitable and sustainable future for all humans in harmony with nature and natural resources.

**Environmental audit** is a general term that reflects various kinds of evaluations intended to identify environmental conformity and management system, accomplishing gaps, along with related corrective actions. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Environment audit is a useful tool to determine how and where most of the energy or water resources are used; and then considerations can be given on how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan.

Thus, academic leaders must ignite and support mobilization of internal and external resources and knowledge so that their institutions respond to environmental challenges in effective manner. As an Institution of higher learning and research, St Aloysius College is deeply concerned and categorically believes that there is an urgent need to deal with these fundamental problems and overturn the trends of environment degradation.

This report is based on the approaches and interventions done on part of the college to address the environmental concerns of the college campus. The current environmental audit represents the initial stage in our efforts to build environmental sustainability on the campus.

In the search for improving environmental quality and to maintain a perfect environment for the future generations of students, St.Aloysius College has made a self-inquiry on environmental quality of the campus and working on following areas:

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## 1. Solid waste management:

College has two vermicomposting pits of the size 4' x 3' feet under solid waste management. In the year 2020-21 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 6th March 2021 to 10th June 2021**– Department of Zoology conducted a three-month Internship programme on “Vermicomposting as Sustainable Practice for Solid Waste Management in Jabalpur city”.
- Nature club organized an online competition on ‘Waste is Wealth’ on the occasion of national science day 28<sup>th</sup> feb 2021.

## 2. Reduce use of plastic

Reducing plastic waste is important because plastic production requires an enormous amount of energy and resources. This causes carbon emissions and contributes to global warming. In our college campus, use of plastics is completely prohibited. From this year onwards in college canteen the disposable plastic cups has been replaced with paper cups. At departmental level all the file covers which were of plastic now replaced with paper only. Earlier students were using plastic covers for assignment but this year onwards this practice totally prohibited in the college. The following activities were conducted by the college to sensitize students with this issue:

## 3. 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:





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- 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).

#### **4. Encouragement for use of bicycle by faculty:**

Cycling can cuts down on greenhouse gas emissions and global climate change. It also reduces air pollutants, noise pollution and congestion.

Cycling is a healthy, low-impact exercise that can be enjoyed by people of all ages, from young children to older adults. It is also fun, cheap and good for the environment.

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The college had already started a new practice that Saturday has been named as 'Cycle Day' from 2019-20. And this was also followed for the last academic year. It is requested to the all the faculty members to use cycle on every Saturday.

## 5. Activities on World Environment Day:

- The department of Botany and Nature Club on the occasion of world environment day organized a slogan competition on the theme 'Our environment: Love and care' on 5<sup>th</sup> June 2021.
- The department of education organized a poster and slogan competition and did the plantation on the occasion of world environment day on 5<sup>th</sup> June 2021.

## 6. Others:

- NSS Girls unit organized one-week training program for villagers on sanitizer making at Mandla.
- NSS volunteers planted sapling in local habitat on the occasion of Environment Day 7<sup>th</sup> July 2020.
- Tree plantation pakhwada was organized by NCC navel wing on 8<sup>th</sup> July 2020.
- Cadets of Army wings (girls) participated in tree plantation on 16<sup>th</sup> July.
- Nature club organized a guest lecture on the topic "Environmental pollution and control on 16<sup>th</sup> Feb 2021.
- To mark the world Earth day an online slogan competition under the banner of nature club on the theme restore the earth was organized on 21<sup>st</sup> April 2021.

### Recommendations:

- Reduce the use of materials made up of plastics for laboratory purpose.
- Encourage usages of bio pesticides and insecticides instead of chemical based preparations for college garden.

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## Certificate for Environment Audit

This is to certify that St. Aloysius College (Autonomous), Jabalpur has conducted detailed **Environmental Audit** of their campus and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory. The efforts taken by the faculty and student toward environment and sustainability is highly appreciated and commendable.

### Audit Committee Experts

- Dr. Harkirat Kaur, HoD, Department of Chemistry (**External member – Incharge**) *Harkirat*
- Dr. Amita Choubey, Department of Chemistry (**External Member**) *Amita*
- Dr. Laxmikant Pandey, HoD, Biotechnology (**Internal Member**) *L.P.*

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