

Arts, Commerce & Science College, Dharangaon Dist Jalgaon,
MAHARASHTRA



2022

Environmental Audit Report



Arts, Commerce & Science
College, Dharangaon, Dist.
Jalgaon Maharashtra 425105

2/9/2022

Environmental Audit Report 2016-21

Audit Conducted By: Department of Botany, Zoology, Environment & Chemistry ACS College, Dharangaon.

Introduction

Increasing industrialization, increasing congestion of automobiles on the roads, the whole area being engulfed in plastic, and the resulting global warming and the resulting unpredictable changes in the environment are now a matter of great concern to the world. Our environment faces several problems, and many of these seem to be worsening with time, bringing us into a time of a true environmental crisis. It is therefore becoming increasingly important to raise awareness of the existence of these issues, as well as what can be done to reduce their negative impact. The emission of greenhouse gases due to human activity causes global warming, which in turn causes an increase in temperature that then leads to rising sea levels, melting of polar ice caps, flash floods and desertification. An excessive amount of waste is produced and dumped in the oceans. Nuclear waste is particularly dangerous, as well as plastics and electronic waste. Species and habitats are becoming extinct due to human activity. This causes an imbalance in natural processes like pollination and poses a threat to ecosystems – coral reef destruction is particularly affected. Loss of trees in order to make space for residential, industrial or commercial projects means that less oxygen is produced, and temperature and rainfall are affected. Pollution caused by chlorofluorocarbons (CFCs) in the air creates a hole in the ozone layer, which protects the earth from harmful UV radiation. Lack of clean water is one of the leading environmental problems currently. Pollutants in the air also cause issues such as respiratory disease and cardiovascular disease.

The College is committed to natural resource resources and their proper use. Trees are cultivated on 60% of the land of the college, so that clean air and healthy environment can be experienced in the college campus. The entire campus is reserved as plastic free.

The use of plastic is banned in the area. At the same time, in order to preserve the environment, automatic vehicle inheritance is prohibited in the college premises.

The College has taken important steps from time to time in terms of conservation and protection of the environment. 40% of the entire campus of the college is covered with dense forest, while 20% of the campus has lakes, small ponds and nallas connecting them

to store rain water. Due to abundant water in all areas, the entire area is green for 9-10 months of the year.

The college is taking measures in the following manner to maintain the sustainability of the environment on the campus.

1. Solid Waste Management
2. E-waste management
3. Rainwater Harvesting
4. Energy efficiency and renewable energy

Indicator-Benchmark- Performance criteria

Indicator	Solid Waste Management
Benchmark	Most of the biodegradable component of the solid waste generated to be converted in to value added product.
Performance	<ul style="list-style-type: none"> • The college has a special system for solid waste management. Through which solid waste is converted into useful fertilizer which is then used for newly planted fruit trees in the area. As 60% of the area is under tree planting, the amount of bio-waste is high which makes the process of waste decomposition naturally fast and waste can be managed. • Dustbins are placed in the premises.
Recommendation	In addition to composting from solid waste management, vermicomposting will also be beneficial.
Indicator	E-waste management
Benchmark	Minimization of E-waste generation and environmentally sound management of e-waste.
Performance	E-waste is generated in minimal amount in the college and the same is given to registered vendors, with an undertaking that the same will be processed or recycled in an environmentally sound manner as per the Government of India guidelines.
Recommendation	<ul style="list-style-type: none"> • Conducting regular mentoring programs to create awareness among employees about the use of e-resources. • The college may enter into a coordination agreement with an NGO for the reuse or disposal of unusable electronic material.
Indicator	• Rainwater Harvesting
Benchmark	<ul style="list-style-type: none"> • All type of rain water are collected in water bodies, pond and recharged in to the ground for further recycling.
Performance	<ul style="list-style-type: none"> • Rainwater from all the buildings of the college is stored in the lakes and small reservoirs of the college through

	<p>nallas so that the water will be fed to the trees and the remaining water will seep into the soil and increase the water level in the soil to the college bore throughout the year.</p> <ul style="list-style-type: none"> • Drains are made in the summer to allow rain water to flow properly into the pond, the silt from the pond is removed regularly; the terraces on the building are cleaned so that the flow of water is not obstructed. • Rainwater from the science building is stored in the chemistry department in a 1000 liter water tank for various experiments.
Recommendation	<ul style="list-style-type: none"> • During the inspection, it was noticed that the nallas carrying water sometimes change the flow as the vehicles pass through them, so a lot of water can go in the wrong direction, in which case it would be convenient to lay large pipes in the place of transport or traffic.
Indicator	Energy efficiency and renewable energy
Benchmark	<ul style="list-style-type: none"> • To save most of the electricity of the college and to develop maximum power generation sources.
Performance	<ul style="list-style-type: none"> • Maximum LED lights are used to save electricity in college. • Most of the equipment in the college has an energy rating of more than 3 stars and when buying new equipment, preference is given to equipment with a possible energy rating of 5 stars. • Solar powered lights have been installed in the college premises.
Recommendation	<ul style="list-style-type: none"> • Solar powered lights have been installed in the college premises. • Since there is clean sunlight in the area for about 9-10 months of the year, installing solar panels on the terraces of college buildings can generate a lot of electricity and save electricity. • It would be convenient to install maximum solar powered lights in the college premises.

Acknowledgment

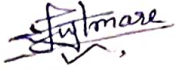
While conducting this audit, many elements of the college helped us directly and indirectly. Hence this work was completed successfully and easily, many thanks to all of them.

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Date: 08/03/2021

Place: Dharangaon

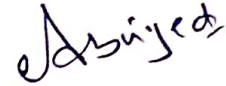
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