ENVIRONMENT AUDIT

STUDY PERIOD (TWO YEARS) 2021 – 2022 AND 2022 – 2023

Sustainability study

RENEWAL AUDIT REPORT

Studied for

Asian Academy of Education and Research's

Asian College of Science and Commerce

Sr. No. 28/15/16, Narhe Dhayri Road, Pari Company Chowk,

Tal- Haveli, Pune-411005

Studied in the capacity of

Accredited and Certified

Green Building Professional

Studied by

Greenvio
Solutions

Disclaimer

The Audit Team has prepared this report for the **Asian Academy of Education and Research's Asian College of Science and Commerce** located at *Sr. No. 28/15/16, Narhe Dhayri Road, Pari Company Chowk, Tal- Haveli, Pune-411005* based on input data submitted by the College and analyzed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on a comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase-wise or as a whole depending on the decision taken by the Hon'ble Management and College. The warranty or undertaking, expressed 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.

The audit is a thorough study based on the inspection and investigation of data collected over a while and should not be used for any legal action. This is the property of Greenvio Solutions and should not be copied or regenerated in any form.

The Report is prepared by the Team of Greenvio Solutions under their brand and department – Sustainable Academe as Consultancy firm with the Project Head - Ar. Nahida Shaikh who is an Accredited and Certified Green Building Professional. Green Building consultancy is her forte and she is one of the most sought-after names when it comes to providing excellent quality services within the stipulated time frame.

The Study is conducted incapacity of an Accredited & Certified Green Building Professional with extensive experience.

Greenvio Solutions

Developing Healthy and Sustainable Environments
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Acknowledgment

The Audit Assessment Team thanks the **Asian Academy of Education and Research's Asian College of Science and Commerce, Pune** for assigning this important work of Environment Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are due to **everyone from the Management.**

Our heartfelt thanks to Chairperson of the entire process **Asst. Prof. Shruti Rege,** Acting Principal for their valuable inputs.

We highly appreciate the assistance of the **entire Teaching, Non-teaching, and Admin staff** for their support while collecting the data.

Sustainable Academe

Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208

Contents

1. Introduction

1.1 About the Institute

A trust registered under the Society's Act 1960, was started with an objective of providing quality education to enhance employability skills through innovation and persistence. Education and training in management has two aims.

Firstly, to increase the level of knowledge, understanding the factors which are dynamics and influence the organization. Secondly, to provide much systems, facilities, sharing, tools, techniques which students can use to influence the organization.

It is an existing field where we can have proper impact on the operations, works, business structure's etc. The team works towards constant up gradation in its working mechanism and has signed a total of 25 MoU's in academic year 2021-2022.

1.2 Academic arena of the Institute

The Institute provides a total of 19 courses as of now. Total 6 New Courses which got added in 2021 – 22 are as follows:

1.   B.Sc.(Animation)
2.   B.A. (Bachelor of Arts)
3.   B.Sc. (Cyber and Digital Science)
4.   M.Sc. (Analytical Chemistry)
5.   M.Sc. (Inorganic Chemistry)
6.   M.Sc. (Electronics)

1.3 Accreditation of the Institute

The Institute has received the following:

⇨ NAAC accreditation with an B+ grade

⇨ Recognition under UGC, Govt. of India section 2 (f)

⇨ ISO Certification for 9001 – 2015

1.4   Timeline of activities for research

As the College had undergone a renewal for the Academic year 2021-2022 and 2022-2023, data collection processes for verification purposes were asked to be submitted.

⮑   Discussion with the College

⮑   Allotment and Initiation by the College

⮑   Process discussion with team

⮑   Data submitted by College

⮑   Submission of the files

2. Compliance

The compliance study was carried out through investigative ways. This was done to understand the **extent of suggestions and their implementations based on previous report of Academic years 2019-2020 and 2020-2021.**

The details of the suggestions are based on the Original Report dated 29 September 2021 is further upgraded. The information for the other aspects are documented below

- ➲ **Fire safety** – The refilling of the extinguishers is done and additional extinguishers have been added recently.

- ➲ **User friendly –** There are seating arrangements provided for the students and staff members.

- ➲ **Eco-friendly products** – There are Low VOC paints and adhesives used in the premises which are environment and user friendly.

- ➲ **Shaded roofs** – The solar panels have been installed on the rooftops which provide shade to the roof and keeps temperature under control.

3. Inferences

3.1 Section-wise recommendations

The following suggestions are to be considered as a ***first priority*** for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

3.1.1 Universally accessible premises

➲ **Provisions for visually impaired - Signages –** In addition to the signages being in regular language there should be additional signages in braille language for the specially-abled students.

➲ **Provisions for visually impaired - Audio Visual Section** – There should be dedicated section for ther visually impaired students to listen to the audio books; Abrar the audio book reader should be available.

➲ **Provisions for hearing and speech impaired – Sensor based fire system** – There should be smoke detectors, sensor based facilities and signages, floor layouts for emergency situations such as fire. Additionally, one maintenance staff should be allocated for assistance at every corner of the Institute.

3.1.2 Life safety

➲ **Fire and life safety practices** – Provisions such as signages, fire alarm, smoke detectors, fire hydrant cabinets, sand buckets, hose reel, fire cabinet, fire water tank and fire pump near the entrance block whichever is applicable should be practiced.

➲ **Awareness** - Fire layouts in immediate spaces outside the lift, on the staircase landing, signages mentioning 'Do not use lift in case of fire' additionally fire exit signages, boards should be put up at all possible locations.

➲ **Sensitization programs** - Regular seminars/ webinars by experts such as Architects, Govt. Fire department on subjects related to fire and life safety should be organized and the outputs should be adopted and documented.

3.1.3 Pollution Control

➲ **Bicycles as a gift -** As an appreciation gesture maybe the student's toppers/ staff best performers can be awarded a bicycle occasionally.

➲ **Avoid using plastic in premise -** There should be a provision for a ban on the use of plastic bags or products on the Premise.

➲ **Paperless technologies for offices -** The Institute can go technology-friendly and go paperless in the functioning of the Premise to a certain extent maybe not fully.

➲ **Avoid paper wastage through books -** The Institute can collect all old semester notebooks; these can either be converted to reusable paper on the premises through a workshop or using a shredder machine or handed over to a vendor for making fresh paper. Additionally, the Students can be motivated to undertake similar practices on an individual note.
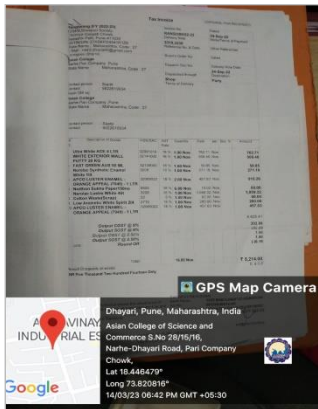
Net metering device in the premises

Energy efficient fan and solar roof top

Low VOC paints order, outdoor seating, fire extinguishers

Incinerator, separate dustbins and sealed septic tank

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4. Compilation

The study is based on the data collected, analysed, rechecked, and confirmed through multiple modes. For the quality study, some standards/ notes have been referred to. These are listed and noted below. However, no direct references have been used anywhere. These are used as a base to analyse and study the data collected.

- ➲ Uniform Plumbing Code – India, 2008

- ➲ IGBC Green Existing Buildings – Operation & Maintenance (O&M) Rating system, Pilot version, Abridged Reference Guide, April 2013

- ➲ IGBC Green Landscape Rating system, March 2013

- ➲ BOMA Canada Waste Auditing Guide, Best Environmental Standards, BOMA BEST – Canada

- ➲ Used only for understanding Universal design - Universal Accessibility Guidelines for Pedestrian, Non-motorized vehicle and Public Transport Infrastructure – Report guidelines by Samarthyam (National center for Accessible Environments) – an initiative supported by Shakti Sustainable Energy Foundation and www.umassd.edu

- ➲ The city of Cheyenne, Streetscape/ Urban Design elements - Wyoming Planning Association, Gillette, Wyoming, United States

- ➲ Images on site by Coordinators of the both teams