

ENVIRONMENT AUDIT REPORT

2023-2024

Environment Audit Assessment Team

Sl. No	Name of the Person	Designation
01	Dr. Y.V.V. Appa Rao, Principal,	Chairman
02	K. Sasi Kumar, HOD in English	IQAC Co-Ordinator
03	Dr. K. Srilakshmi, Lecturer in Botany	Co- Ordinator
04	T.Ramesh, lecturer in Bio-technology	Member
05	Dr. K. Lakshmikantamma, Lecturer in Zoology	Member

Objectives

The broad aims/ benefits of Environmental Audit

- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Development of ownership, personal and social responsibility for the College campus and its environment
- Enhancement of College profile
- Developing an environmental ethics and value system in the youth.

Executive Summary

An environmental audit is to assess campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. The College has already done internal green assessment. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. This audit report contains observations and recommendations for improvement of environmental consciousness.

- Waste Minimization
- Greening
- Energy Conservation
- Water Conservation
- Clean Air
- Environmental Legislative
- General Practices

The following are available in the college.

- Normal Flora Garden area
- Medicinal Plants Garden
- Play ground
- Toilets
- Laboratory
- Canteen
- Hostel Facility
- Guest House
- Gymnasium
- Yoga Practice Hall
- Departmental Stores
- Water RO Plant for Drinking water
- Open Auditorium
- Seminar Hall
- Ladies Waiting Hall
- Library
- Rain Water Pits
- Open drainage System
- Underground Drainage system

The following are found near the college.

- Public convenience
- Industry—(Rice Mills)
- Bus station
- Public halls
- Temples
- Agriculture Area
- Fresh water Canal

- **Waste Minimization**

1	Solid waste, Canteen waste, paper waste, plastic waste, toiletry waste, e-waste are minimized in the college.			
2	Bio-degradable	Non-Biodegradable	Hazardous	others
	100kg	1kg	Nil	<20kg
3	Composting pits are available in the campus; Waste bins are provided at campus for biodegradable and non-biodegradable waste at different places.			
4	Reuse of one side printed Paper for internal communication.			
5	All kind of waste is managed in an adequate manner without any deviation.			

- **Greening the Campus**

1	Gardens in the institute	About 3 Acre is the Green Area at different places	
2	Students spent time in the garden	2-4Hours a day	
3	Total number of Plants in Campus	Plant type	Number of species
		Trees	118
		Shrubs	98
		Herbs	102
		Grass Cover	2.5Acres
4	Department working for the greening the campus Number of Staff working in Botany Department for garden development	Botany Four Gardeners	
5	Number of Tree Plantation Drives Organized by College per annum.	Four Tree Plantation Drives was Organized Annually.	
6	Number of plants Planted in Last academic year Survival Rate	85 90%	
7	Plant Distribution Program for Students and Community	Seed bank is developed and, Saplings are distributed to Students and visitors at various Occasions.	
8	Plant Ownership Program	Some interested students from the Botany department are adopting some plants and they are taking care about plants for better growth.	

Energy

- Electricity is saved by use of LED bulbs for illumination
- Use of Natural Lighting and Natural Ventilation are promoted.
- 70% of Total Conventional bulbs are replaced by LED Lights.
- Computers and other equipment's put-on power-saving mode
- Machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time

Power Consumption Areas

More power consumption areas are 2 hostels, UG & PG blocks and e-class rooms. The energy audit team suggested to maintain energy conservation and reduce energy utilization

Water Conservation

- Basic usage of water in campus are; Drinking, Gardening, Toilets, and Others. and total consumption is 400KL/ month.
- Water tank is used for storage of water.
- Water wastage.
- Entry-Groundwater exit-from water drainage system to natural sewage drain.
- Reducing the amount of water used in our institute through 1. RWH, Closing the taps after usage 2. Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage 3. Water Conservation awareness for new students

Water Quality assessment

Water samples from four different locations were collected and analyzed for its quality parameters. The sample include tap water which are the main water source of the college campus and 8 tap water samples which is used for canteen and drinking water systems. The samples were collected, and analyzed for various physio-chemical parameters. The major parameters analyzed include hardness, pH, conductivity, total dissolved solids and Alkalinity.

Table Indicates Quality of Water

S.NO	Collection point	Date of sampling	Hardness (Mg/L)	Alkalinity (Mg/l)	TDS (ppm)	pH	Conductivity $\mu\text{s/cm}$
1	Ground Water	20-02-2023	195	200	500	7.0	350
2	Canal Water	20-02-2023	200	290	118	7.1	70
3	RO water	20-02-2023	400	300	400	7.1	100

General

- The institution participated in Swatchh Bharat in promotion of environmental protection.
- Periodically Plantation is carried out by institution.
- The college observes world Environmental Day, Ozone Day etc.
- Initiatives for Environment
- The college is utilizing Solar Energy.
- The college has lush green campus which provides various species.
- Periodically the plantation drives by students and staff are carried out.
- 100% recharge of the rain water.
- Reduction in Air Pollution through vehicle emission.
- E-waste is sent to the authorized recyclers for adequate disposal

Recommendations

- Formation of Environment Policy and communicate to all faculties and other staff members.
- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Stack Monitoring of DG sets, Water monitoring need to be conducted by A.P. State Pollution Control Board, approved laboratory with frequency of six months)
- Reduction of paper use replacing by digital system.
- Water Meter to install at institute for monitoring of water consumption for landscape.
- Increase the Environmental promotional activities for spreading awareness at campus.
- As practically feasible, avoid personal vehicles inside the campus.

Conclusion

This audit involved extensive with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The College has Environmental Committee for sustainable use of resources. Overall 60% of the campus is for landscaping. The audit team has identified several observations for making the campus premises more environmental friendly. The recommendations are also mentioned with observations for campus team to initiate actions.

K. Srilakshmi
(Dr. K. Srilakshmi)



Y. V. V. Appa Rao
(Dr. Y. V. V. APPA RAO)
PRINCIPAL
S.V.K.P. & D.K.S. RAJU ARTS & SCIENCE COLLEGE (A)
PENUGONDA-534320, W.G.D.A.P.

S.V.K.P. & Dr. K.S. Raju Arts & Science College

(Autonomous)

Recognized by UGC as "College with Potential for Excellence"
Accredited by NAAC with grade 'A'

Dr. Y.V.V. APPARAO M.Sc., Ph.D.,
PRINCIPAL



PENUGONDA - 534 320.

West Godavari District
Andhra Pradesh

Dt: 27-03-2023

ENVIRONMENT AUDIT CERTIFICATE

This is to certify that the internal Environment Audit for S. V. K. P. & Dr. K. S. RAJU ARTS & SCIENCE COLLEGE (AUTONOMOUS), PENUGONDA, has been conducted during April 2023-March 2024 to assess waste minimizing and greening the campus, energy and water conservation activities implemented in the college campus. The audit team mainly focused on Environmental awareness activities and future plans to maintain eco-friendly campus. This environment audit was conducted in accordance with the applicable standards.

K. Srilakshmi

Coordinator

(Dr. K. Srilakshmi)

Auditors

1. *T. Ramesh*
(T.Ramesh)

2. *K. Lakshmikantamma*
(Dr. K. Lakshmikantamma)



Y.V.V. APPARAO
(Dr. Y. V. V. APPA RAO)

PRINCIPAL
S.V.K.P. & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE
PENUGONDA-534320.W.G.D.A.P.

Certificate

HYM International Certifications Pvt. Ltd.

Certified that the Environmental Management System

SRI VASAVI KANYAKA PARAMESWARI AND

DR.KALIDINDI SURYANARAYANA RAJU ARTS AND SCIENCE COLLEGE

Penugonda, West Godavari District, Andhra Pradesh, India

has been assessed and found to be in accordance with the requirements of the environmental standards

ISO 14001 : 2015

(Environmental Management System)

for the following scope of certification

PROVIDING U.G. COURSES B.A., HONOURS (HISTORY), B.A., HONOURS (ECONOMICS), B.SC., HONOURS (MATHEMATICS) B.SC. HONOURS (PHYSICS)
B.SC., HONOURS (CHEMISTRY), B.SC., HONOURS (ELECTRONICS), B.SC., HONOURS (BOTANY), B.SC., HONOURS (ZOOLOGY), B.SC., HONOURS (COMPUTER SCIENCE),
B.SC., HONOURS (BIOTECHNOLOGY), B.SC., HONOURS (BIOCHEMISTRY), B.COM. HONOURS (GENERAL), B.COM. HONOURS (COMPUTER APPLICATIONS) BCA, HONOURS
PG COURSES MCA, M.B.A M.SC., ORGANIC CHEMISTRY, M.SC. ZOOLOGY, M.SC., BOTANY, M.SC., AQUACULTURE

Further information about the scope of this certificate and applicability of ISO 14001 : 2015 requirements may be obtained by consulting the organization.

Certificate No : HYM/IAS/EMS/ 9186414/0024

Issue Date : 22/12/2023

1st Surveillance 21/12/2024

Renewal Date : 21/12/2026

2nd Surveillance 21/12/2025



Authorised Signature

HYM International Certifications Pvt. Ltd

NOTE: This Certificate is Valid From 22/12/2023 to 21/12/2024

This is an accredited certificate authorized for issue by Accreditation Service for Certifying Bodies [Europe] Limited who have assessed M/s.HYM International Certifications Pvt. Ltd. against defined criteria and in cognisance of ISO 17021:2015 "Conformity Assessment - Requirements for bodies providing audit and Certification of management Systems".

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