



Shriram Education Society's
Shriram Kala Mahila Mahavidyalaya
Dhamangaon(Rly), Dist. Amravati

**GREEN, ENVIRONMENT AND ENERGY
AUDIT REPORT
2019-2020**



Prepared by

**IQAC
Shriram Kala Mahila Mahavidyalaya, Dhamangaon Rly
And
Shri Shri Enviro Consultancy, Amravati**

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To,
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Shriram Kala Mahila Mahavidyalaya,
Dhamangaon Rly

It is to certify that we Shri Shri Enviro Consultancy, Amravati conducted "GREEN, ENVIRONMENT AND ENERGY AUDIT" of the campus of Shriram Kala Mahila Mahavidyalaya, Dhamangaon Rly for the Academic Year 2019-2020.



S. V. Bute
Proprietor

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I. INTRODUCTION

Everything that surrounds or affects an organism during its lifetime is collectively referred to as its environment. It comprises both living (biotic) and nonliving (abiotic) components. Human civilisation and globalisation are the dominant culprits of constant change in the global environment in present scenario. Various processes that can be said to contribute to the global environmental problems include pollution, global warming, ozone depletion, acid rain, depletion of natural resources, overpopulation, waste disposal, deforestation and loss of biodiversity. Almost all these processes are the result of the use of natural resources in unsustainable manner. These processes have highly negative impact on our environment. One of the major impacts is the release of large quantities of carbon dioxide and other greenhouse gases in atmosphere as the result of burning of fossil fuels by industries and automobiles. The result is the worldwide pollution problem, temperature fluctuation of our planet, ozone hole and possible change in Earth's climate. Loss of forests, damage to water bodies (lakes and ponds) and their ecosystems by acid rain, over-exploitation of natural resources, massive extinction of species due to habitat destruction and other well-known causes worldwide are connected with environmental issues globally. The rapidly growing demographic structure and globalisation are leading to a number of environmental issues because of the uncontrolled urbanisation, industrialisation, deforestation and loss of useful agriculture land. The global environmental health impact remains profoundly perturbing. Unsafe water, poor sanitation and hygiene conditions, air pollution and global climate change accounts for nearly a tenth of deaths and disease burden worldwide. Due to above-mentioned environmental issues, our planet is facing severe environmental crisis. Current environmental problems lead to disasters and tragedies now, will also be the reason of casualties in future and require urgent attention from the responsible authorities/nations to frame appropriate laws to overcome these issues and also by making people aware to use natural resources in sustainable manner.

The term 'Green' means eco-friendly or not damaging the environment. This can acronymically is called as "Global Readiness in Ensuring Ecological Neutrality" (GREEN). An environmental audit as defined in ISO 14000 is a systematic, documented verification process of objectively obtaining and evaluating audit evidence to determine whether specified environmental activities, events, conditions, management systems, or information about these matters conform with audit criteria, and communicating the results of this process. "Green Auditing", an umbrella term, is known by another name 'Environmental Auditing'. Green

audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider 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. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of different environmental issues.

II. ABOUT COLLEGE

Dhamangaon Rly is one of the well-known Education hubs in the Vidarbha region in Maharashtra, India. Shriram Kala Mahila Mahavidyalaya, is one of the leading institutions in Dhamangaon Rly which is established by 'Shriram Education Society'. It was founded by Honourable MLC Shri. Arunbhau J. Adsad. It was established on 9th July, 1999.

The college has permanent affiliation of Sant Gadge Baba Amravati University, Amravati and UGC recognized it with U/S 2(f) and 12 (B). It is an ISO (9001:2015) certified institute of Otabu Certification Limited (UK). Its special quality is that it runs Humanity Programme. It keeps alive humanity programme in the world of science, technology and corporate. It runs B. A., M.A. (Marathi) programmes and Ph. D. Research Center in Marathi of Sant Gadge Baba Amravati, University, Amravati. It runs eight courses namely English (Course Code 1001), Marathi (Course Code 1011), English Literature (Course Code 1051), Marathi Literature (Course Code 1052), Political Science (Course Code 1024) Sociology (Course Code 1025) Geography (Course Code 1111) and Home Economics (Course Code 1113). It has a study Centre (Code 12175) of YCMOU Nashik from 2014-15. It runs B.A. (Marathi and Urdu Medium) programmes .

It is Women College so College and Society is taking care of every security of the students. The College premise is under CCTV surveillance. College and Society follow the principle, 'Jichya Hati Palnyachi Dori ti Jagachi Uddhari' means that the world's progress is in the hands of women.

Vision

Our vision is that their knowledge should be everlasting and useful for the Nation's building and to reach society's aim 'Dnyan Sarwahithaya' means 'Knowledge for Beneficiaries'" because India's bright future is in the womb of a woman who will be mother and teacher.

Mission

1. To impart qualitative and valuable service in the field of education to the residents of Dhamangaon Rly and nearby areas.
2. To attain community and social development through the infrastructural facilities of the institution.
3. To ensure and inculcate perfect discipline in terms of regularity, sincerity and punctuality amongst the students so that they contribute to the society and nations as the most responsible citizens.
4. To aim at overall personality development of the students through extra-curricular activities in association with various Social and Cultural organizations.
5. To provide a platform to the students by giving them an opportunity to face all the challenges of the competitive world with almost utilization of their potential in sports, athletics and other events.

COLLEGE PHOTOGRAPHS

College Building



College Building



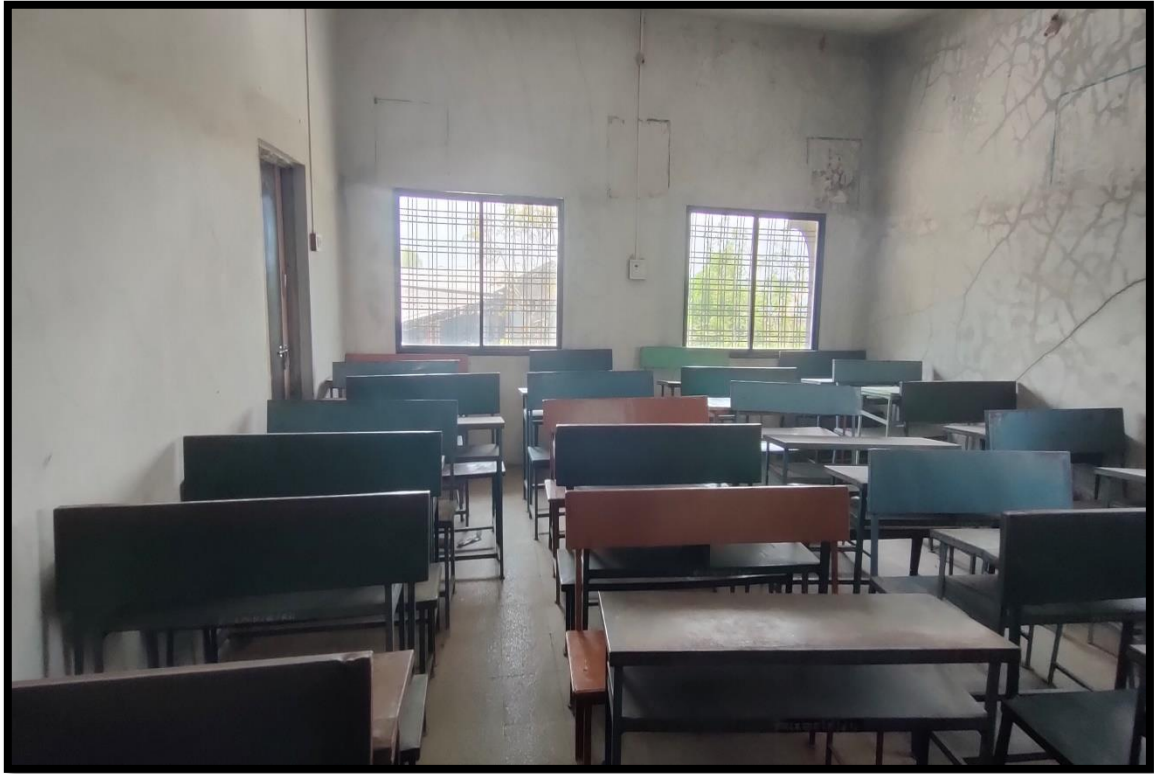
Programme Hall



Library



Class Room



Play Ground



YCMOU Centre



Land use data

Shriram Kala Mahila Mahavidyalaya located at Dhamangaon Rly, Maharashtra, India.
It encompasses an area of about 0.8 acre. The college land use pattern:

Categories of Land Use Area

Build Up Area	6178.78 square meter
Total Area	0.8 acre

III. OBJECTIVE OF GREEN AUDIT

The main objective of the conducting green audit is to promote the concept of sustainable development in the staff members and students. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out Green Audit are:

- Suggesting ways of recognizing “Greening” initiatives on the campus and its surround area.
- Detecting any leakage, spills or other such problems with the operations and processes of water resources.
- To take appropriation action for conservation of water.
- Measuring the environmental impact of each and every process and operation of college activities.
- To estimate and reduce the Energy requirements of the college.
- Measuring output of ecofriendly activities conducted by college.
- To introduce and aware students to real concerns of environmental conservation and its protection.
- To identify, analyse and solve significant environmental issues in campus.

IV. METHODOLOGY

The purpose of the green audit of Shriram Kala Mahila Mahavidyalaya is to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The methodology include: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. Some data have also been taken from the students volunteer by various departments of the college.

V. OBSERVATION AND RECOMMENDATION

Water Audit

Water audit includes the onsite assessment of source, water requirement, water storage, collect information about waste water generation and water losses through leakage in college campus. For water audit necessary data is generated through the on site visit, survey by questioner and interviews etc methods applied by consulting agency.

The study observed that the Well water (01) are major sources of water in college campus no municipal corporation water connection are present. Overall one well present campus complete the overall need of water in college. Water is used for Drinking Purpose, Play Ground, Urinal, Toilet etc. During the survey loss of water is observed by leakages of pipe and by drinking water tap in college campus. The data collected from all the campus is examined and verified.

On an average the total use of water in the Shriram Kala Mahila Mahavidyalaya campus is 4000 L/Day, which include 2000 L/Day for main building for drinking, toilet etc. 1000 L/Day in new Building.

Recommendation

- Water purification treatment facilities may be installed within the campus in order to ensure safe drinking water.
- Responsibility of monitoring the overflows of water tank and check of leakages is fixed on peons/ non -teaching staff in the concerned section.
- Pipes, overhead tanks and plumbing system should be maintained properly to reduce leakages and wastages.
- Conduct awareness program for efficient use of water.

Energy Audit

Electricity:

Energy audit includes examination and calculation of electricity consumption in overall college campus. Main energy source in campus is electricity of MSEB. Main source utilized by all the departments and common facility centre is electricity. Major use of the electricity is observed at office, lighting of college campus etc. The total energy utilization of the college for different purposes is approximately 353 kwh/month (unit). Major energy consumption equipments are the high wattage electrical appliances such as electrical motors for pumping the water, xerox machine etc were noted during the survey and on-site visit. College also utilize CFL and LED bulb.

Recommendations

- Energy auditing should be done in every year with the help of external experts or agency.
- Solar panels shall be installed on top of the buildings.
- 5–star rated Air Conditioners, Fans and CFLs should be used.
- Prefer purchasing of more energy efficient equipment for laboratory and college purpose.
- Save electricity by proper maintenance of the wiring and electrical equipment, maintenance of electrical appliance and fitting is essential.
- Adopt solar power to light up the roads, exterior site of campus section.
- Cleaning of tube-lights/bulbs to be done periodically, to remove dust over it.

Solid waste Audit

Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus. The average very less amount of solid generated in college campus. Waste generation from tree droppings and garden management and paper waste is a major solid waste generated in the campus. Single sided used papers reused for writing and printing in all departments and office work. Followed by paper plastic is secondary contributing solid waste generated in some quantity in the campus. The waste is segregated at source by providing separate dustbins for Bio-degradable and Plastic waste.

Recommendations

- Sufficient big waste bins are placed where essential (in classroom, near office etc) and monitored periodically.
- Segregate solid waste in to wet, dry, glass and constructional at source and biodegradable is sent for composting, while other sold waste are send to recycle or proper disposal.
- Install Vermicomposting and Pit Composting unit for proper management of biodegradable solid waste.
- Ban of plastic carry bags in college campus.
- Training in bag making from polyester, and cotton materials for students.

VI. CONCLUSIONS

"Green Audit" of Shriram Kala Mahila Mahavidyalaya is conducted by Shri Shri Enviro Consultancy, Amravati for the academic session 2019-2020. Overall, one well in campus complete the overall need of water in college. Loss of water through the leakages of tap and pipe line was not observed. College collect roof water for rain water harvesting purpose. College the LED lamps are used in all sections, minimize use of fluorescent tubes. All the rooms in all sections of college are airy and sunny and do not need electricity during day time for lightning in clear day. Waste bins are placed at solid waste collection spots in different sections. Solid-waste segregation, handling and disposal are not properly deployed at campus. College arranges the events, such as Cultural Events, Internal and External contact seminars, rally, tree plantation etc. in order to literate the student regarding sustainable development.

संत गाडगे बाबा अमरावती विद्यापीठ अमरावती संलग्नित

श्रीराम शिक्षण संस्था द्वारा संचालित

श्रीराम कला महिला महाविद्यालय धामणगाव रेल्वे

• कार्यक्रम अहवाल •

कार्यक्रमाचे नाव - वृक्ष लागवड
आयोजक - वेळ/स्थळ - श.से.प्र. सकादी 11.30 वा. महाविद्यालयाचे मैदान
कार्यक्रमाचे वक्ते/व्याख्याते/पाहुणे - डॉ. गणेश शिंदे, प्रा. राकत, प्रा. अडि, प्रा. वेड, श्री. गवारे
सहभाग - बी.ए. भाग 1 2 व 3 विद्यार्थी-विद्यार्थिनी दिनांक 04 जुलै 2018

कार्यक्रमाचा उद्देश - राष्ट्रीय सेवा योजना विभागातर्फे दि. 04 जुलै 2018 रोजी वृक्ष लागवड यासाठी श.से.प्र. विद्यार्थिनी व महाविद्यालयाचे प्राचार्य यांचे कडून वृक्ष लागवड करण्यात आली. या कार्यक्रमाचा मुख्य उद्देश हा विद्यार्थी व स्नातकोत्तर लोकांमध्ये पर्यावरण संरक्षण करणे हा आहे. काही दिवस दिवस पर्यावरणाची काळजी घेऊन घेतले जाणे. या सोडून त्यांच्या आवाजाचा उद्देश म्हणजे पर्यावरणातील लक्षणे जाणवणे हा आहे. त्याच वृक्ष लागवड करताना सर्व शिक्षण विभाग एकत्र आला व त्यातून बतविणे व आहे.

कार्यक्रमाविषयी थोडक्यात - राष्ट्रीय सेवा योजना विभागातर्फे दि. 04 जुलै 2018 रोजी वृक्ष लागवड हा कार्यक्रम घेण्यात आला. या कार्यक्रमात महाविद्यालयाचे प्राचार्य डॉ. गणेश शिंदे, प्रा. राकत, प्रा. अडि, प्रा. वेड, प्रा. गवारे यांनी कार्यक्रमाचे आभार मानले. या कार्यक्रमात डॉ. शरद गुजराल, प्रा. नागेश पंचवडे, प्रा. पांडुरंग शिंदे सह विद्यार्थी उपस्थित होते. कार्यक्रम संपल्यानंतर प्रा. अडि यांनी वृक्षारोपण करवाची कारणे विवद केली. त्याच वृक्ष लागवडीचे पर्यावरण संरक्षणातील महत्त्व विद्यार्थीनींना सावधानतेने जाणवले. महाविद्यालयाचे प्राचार्य डॉ. गणेश शिंदे यांनी पर्यावरण संरक्षणासाठी 13 भागात नवाचे प्रमाण पाहिले.

2018-19

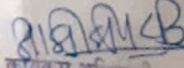
18-19

Tree Plantation 4 July 2018



वृक्ष लागाव - दि. 04 जुलै 2018


Principal
Shriram Kale Mahila
Mahavidyalaya
DHAMANGAON RI


कार्यक्रम अधिकारी
राष्ट्रीय सेवा योजना
श्रीराम कला महिला महाविद्यालय
धामणगांव रेल्वे

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श्रीराम कला महिला महाविद्यालय धामणगाव रेल्वे

सहभाग - बी.ए. भाग 1 2 व 3 विद्यार्थी-विद्यार्थिनी दिनांक 16 जुलै 2018

विभागात के पर्यावरण संरक्षण चक्कड शब्द विव्यासही करतुं वृक्ष लागवड हा काम गुप्त होव्यात येतो. या कामाचा मुख्य उद्देश वृक्ष लागवड हा आहे. दिवसेंदिवस वाढ होताना दिसत आहे. महाविद्यालय पर्यावरण जाणीस जाण वृक्ष लावून सापवात करू करी करणे हा बुद्धा या काम गुप्ताचा एक उद्देश आहे. या काम गुप्तात वा. ले. पो. विद्यापीठाची वा वृक्ष लागवड येकदा विषयी आणीक जाणी करव्यात सर्वा.

कार्यक्रमनाविषय याडक्यात - श्रीरामकृष्ण महिला महाविद्यालयात
दि. 16 जुलै 2018 रोजी राष्ट्रीय लेखा योजना विभागातून
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महाविद्यालयाचे प्राचार्य डॉ. गणेश क. टोले, समाजशास्त्र
विभाग प्रमुख प्रा. लक्ष्मणराव राठुर, राजशाळा विभाग प्रमुख
प्रा. तनवीर बिहारे, डॉ. व. प्रो. कामेश्वर याचिकारी प्रा. ए. पी.
देव, काही अनुभवा कर्मचारी डॉ. गणेशराव प्रसाद सिद्धाकर्तार
कर्मचारी प्रा. सतीश खोसरे व तत्संबंधी तदर्थक प्रा. गणेश
राठुर यांचे व सहकार विद्यापीठात उपस्थित सेवा.

2018-19


19-19

Tree Plantation 16 July



19.20

वृक्षारोपण कार्यक्रम
दि. 16 जुलै 2018


Principal
Shriam Kala Mahila
Mahavidyalaya
DHAMANGAON RI


H.O.
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