



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

**GREEN, ENVIRONMENT AND
ENERGY AUDIT REPORT
2020-2021**



Prepared by

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Shriram Kala Mahila Mahavidyalaya, Dhamangaon Rly
And
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Date,

To,
Principal,
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 2020-2021.



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

Floral Diversity of College

The Mahatma Shriram Kala Mahila Mahavidyalaya area is immensely diverse with a variety of tree species performing a variety of functions. To create- green cover, eco-friendly atmosphere, pure oxygen at the college campus, plantation program is organized every year with involving all students, principal, and all departments faculty members. The trees of the college have increased the quality of life, not only the college fraternity but also the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Many animals are dependent on these trees mainly for food and shelter. Flowers and fruits are eaten by monkeys, and nectar is a favourite of birds and many insects. Leaf – covered branches keep many animals, such as birds and squirrels, out of reach of predators. A total 51 plants present in the college campus including trees, shrubs and herbs during the academic session 2020-2021. College campus have different plant species include Bel, Kanchan, Gulmohar, Neem, Vad, Sag, Pimpal, Jamun, Kadulimb, Ashok etc.

Neem



Bel



Pimpal



Jamun



III. OBJECTIVE OF GREEN AUDIT

The main objective of the green audit is to promote the Environment Conservation in the College Campus. To take review of last year green audit. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment protection in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- I. To document the floral diversity of the college
- II. To examine the current practices which can have impact on the environment such as of resource utilization, waste management, water conservations, etc.
- III. To take review of last year green audit practice
- IV. To identify strength and weakness in green practices conducted in college campus
- V. To perform monitoring and estimation of environmental components of the college by following standard procedure
- VI. To create plastic free campus and evolve health consciousness among the stakeholders
- VII. To promote environmental awareness through different activities
- VIII. To motivate staff as well as students for optimized sustainable use of available natural resources

IV. METHODOLOGY

In order to perform green audit of Mahatma Shriram Kala Mahila Mahavidyalaya, Dhamngaon Rly the methodology included general action plan include in pre audit activity, on site audit activity and post audit activity.

General action plan

1. Define the time line and existing resources for audit
2. Systematic and comprehensive data collection required for green audit
3. Collection and reading of documentation with physical evidences
4. Independent periodic evaluation with regulatory requirements and appropriate standards
5. Take review of environmental policy of college

The audit process

The present audit is a Pre-audit to collect the details required for external auditing.

Pre-audit activities

The pre-audit activities include selection of the college campus that are to be audited. Questionnaires prepared for actual green auditing in the college campus. The green audit scope and objective were identified. The audit plan was designed in such a way that it accommodated changes based on information gathered during the audit and effective use of resources. The audit team collect the entire document which essential for performing green audit. Audit team and assignment of responsibility were established. The background information on the facility including the facility' organisation, layout and processes, and the relevant regulations and standards, were collected.

Onsite-audit activities

The onsite audit includes Collect information about land use pattern and land use analysis of college campus. Site inspection is the first step for onsite activity. Onsite phase of the audit developed a working understanding of how the facility manages the activities that influence the environment. Gathering audit evidence ie, collecting data and information using audit protocol. Evaluated the audit evidence against the objectives established for the audit. Monitoring of air, water and noise parameter is performing. Collection and site inspection of data regarding to solid waste, energy and leakages of water.

Post-audit activities

Post audit activities include the analysis of data collected from different stakeholders and documentation of green audit report.

V. OBSERVATION AND RECOMMENDATION

Water Audit and Recommendation

Water audit includes the onsite assessment of source, water requirement, water storage 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. Water is used for main building, ground, urinal, etc for daily routine activity. During the survey no loss of water is observed neither by any leakages nor by over flow of water from overhead tanks in all over the college campus. The data collected from all the campus is examined and verified. College also build up rain water harvesting unit for collection and recharge of ground water.

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, 500 L/Day for New Bulding, Play Ground 1000 L/Day, Urinal 500 L/Day purposes, etc.

The source and per day average water consumption in Mahatma Shriram Kala Mahila Mahavidyalaya is given below:

Following are the sources of water in college campus

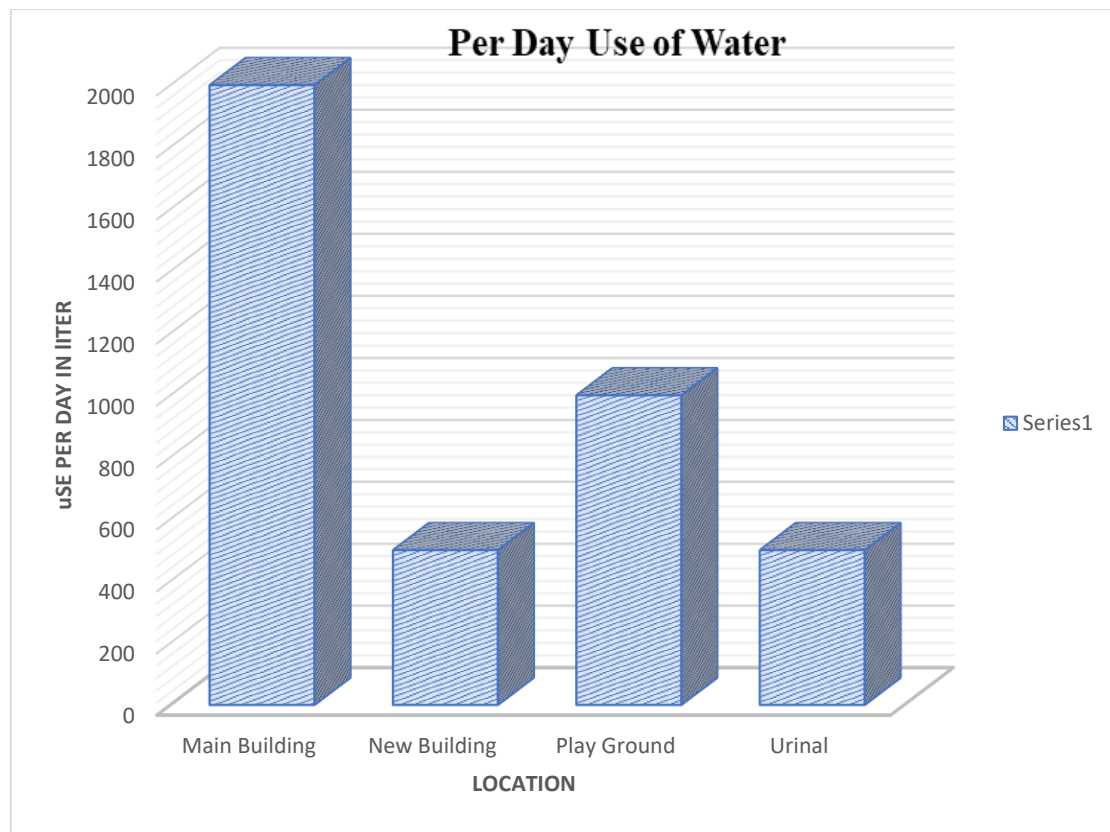
Sources of Water

Sources	Well	Corporation	Bore Well
Total No.	01	-	-

Following are the campus location wise per day consumption of water in college campus

Per Day Use of Water

Sr. No.	Name of Location	Sources	Use Per Day in Liters
1	Main Building	Well	2000
2	New Building	Well	500
3	Play Ground	Well	1000
4	Urinal	Well	500



Above graphical presentation reveals that section wise and site wise water assessment of water requirement per day in which maximum water use is garden. Less use of water is observed parking and canteen.

Recommendation

- Responsibility of monitoring the overflows of water tank 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.
- Gardens should be watered by using drip/sprinkler irrigation system to minimise water use.
- Conduct awareness program for efficient use of water.

Energy Audit and Recommendation

The total energy utilization of the college for different purposes is approximately 418 kwh/month (unit). Major energy consumption equipments are the high wattage electrical appliances such as electrical motors for pumping the water, air conditioners etc were noted during the survey and on site visit. The college keep on replacing the old filament bulbs, CFL bulbs and tube lights by low energy consuming LED bulbs and bulky high power consuming fans by energy efficient fans in order to keep the electricity consumption of the college as low as possible. All the computers have LED screens; Computers are always kept on standby mode with power saving screensavers. Non-teaching staff switches on all lights & fans in morning and shut down directly in evening. Lack of control on usage increases the energy consumption. There is no renewable source of energy used e.g. Solar, Wind. However, the college is planning installation of solar panels to meet the electricity requirements in the future.

Recommendation

- Awareness programmes for the staff and student to save energy may also increase sustainability in the utilization of various energy sources.
- The College should improve its monitoring and reporting of electricity usage.
- Conduct switch off drills at regular intervals and fix its responsibility on teaching / non teaching staff.
- It is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity.
- 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.

Noise Audit and Recommendation

The noise levels / Sound pressure level (SPL) measurements were carried out using precision sound level meter or dB meter. The noise level measurement was periodically carried out at five locations, at outside as well inside the college campus. The major source of noise identified in the college campus has been predominantly the external and the transportation activities.

Sr. No.	Location	Average Reading dB (A) Leq (Day Time)
1	Parking	58.1
2	Class Room	55.7
3	Staff Room	56.7
4	Play Ground	60.6
5	Library	43

Solid waste Audit and Recommendation

Total amount of solid waste generate in college campus including tree leaves, paper, plastic, food waste is 8.5 kg per day. Tree leaves is a major solid waste generated in the college campus. Solid waste is collected by separated dustbins provided by college. Single sided used papers reused for writing and printing in all departments and recently both side printing is carried out as per requirements. Metal waste and wooden waste is stored and given to authorized scrap agents for further processing. The solid waste is collected by the municipal corporation and disposed by their methods.

Recommendations

- Build up vermicomposting method or pit for biodegradable solid waste.
- Ban plastic carry bags and other plastic material in campus.
- Developed facility to separation of bio degradable and non biodegradable waste in campus.
- Implementation and adapted of paper less culture in college.

VI. CONCLUSION

"Green Audit" of Shriram Kala Mahila Mahavidyalaya is conducted by Shri Shri Enviro Consultancy, Amravati for the academic session 2020-2021. The findings of this report show that the college performs fairly well on sustainability issues. All the green practices adapted by college are eco-friendly and achieve the objective of green audit. The campus of college fulfils all the requirements of educational institute, like infrastructural facilities, adequate space in between buildings, plantation, gardens etc. The college campus is fully green with various trees, shrubs, herbs, climbers, garden plants, ornamental plants. Rain Water Harvesting Unit and Roof Top rain water harvesting are the best practise adapted by college. Besides, Environmental Awareness Programmes initiated by the administration shows how the campus is going green. Use of smart electrical appliance is necessary to save electrical energy, for this LED bulbs/tubes etc are used in college campus, is an green practice of college.

VII. GREEN INITIATIVE

Tree Rakshabadhan Programme 2019

संत गाडगे बाबा अमरावती विद्यापीठ अमरावती संलग्नित

श्रीराम शिक्षण संस्था द्वारा संचालित

श्रीराम कला महिला महाविद्यालय धामणगाव रेल्वे

• कार्यक्रम अहवाल •

कार्यक्रमाचे नाव - वृक्ष रक्षाबंधन

आयोजक - वेळ/स्थळ - राष्ट्रीय सेवा योजना, स. 11.30 वा. महाविद्यालयीन मैदान.

कार्यक्रमाचे वक्ते/व्याख्याते/पाहुणे - श्री. बब्राम प्रसाद डॉ. गणेशचंद, प्रा. नितीश बिहारी

सहभाग - बी.ए. भाग 1 2 व 3 विद्यार्थी-विद्यार्थिनी

दिनांक 15 ऑगस्ट 2019

कार्यक्रमाचा उद्देश -

राष्ट्रीय सेवा योजना विभागातर्फे दि. 15/08/19 रोजी सकाळी 11.30 वाजता महाविद्यालय परिसरातील वृक्षाना राखी बांधल्याची उपक्रम घेण्यात आला. या कार्यक्रमाचा मुख्य उद्देश हा वृक्षांची आपल्या मनीसी प्रमाणात काळजी घेणे हा होता. पर्यावरण लक्षणांसाठी वृक्ष पनथन करणे हे काळाची गरज आहे. वृक्षांची काळजी घेतल्यास त्या - पाऊन आपणाला आपणाना मिळते, घेतलेले फायदे मिळते. विविध प्रकृतीपाऊन मुक्ती मिळते. विद्यार्थ्यांना यातून अशा प्रकारे नैसर्गिकगवड, वृक्ष पनथनाय फायदा सक्तीचा समजाव हा या कार्यक्रमाचा प्रमुख उद्देश होता.

कार्यक्रमाविषयी थोडक्यात

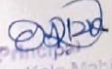
श्रीराम कला महिला महाविद्यालयातील राष्ट्रीय सेवा योजना विभागातर्फे दि. 15 ऑगस्ट 2019 रोजी वृक्षाना रक्षाबंधन हा कार्यक्रम घेण्यात आला. या कार्यक्रमाचे शिक्षकस्थाना श्रीराम शिक्षण संस्थेचे सचिव धनश्यामजी मेश्राम होते. त्यांनी यावेळी यावेळी प्रकृतीपाऊन प्रमाणे वास्तविकतेच्या वास्तव प्रकृतीपाऊन प्रमाणे करवावा हे जाहीर जास्त नैसर्गिकगवड न त्याचे लक्षणे करवाची गरज असल्याचे सांगितले. यावेळी प्रमुख पाहुणे म्हणून प्रा. नितीश बिहारी यांनी यावेळी यावेळी प्रमुख निष्ठासाठी प्रा. दाड मोनी महाविद्यालयीन निष्ठासाठी या कार्यक्रमाचे उद्देश करणे गरजेचे असल्याचे यावेळी यावेळी वृक्षांचे रक्षण करणे गरजेचे असल्याचे यावेळी यावेळी

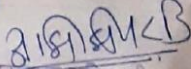
Rakhi to tree Program



वृक्षांता रक्षाबंधन कार्यक्रम

दि. 15 ऑगस्ट 2019


Principal
Shriram Kala Mahila
Mahavidyalaya
DHAMANGAON RI


कार्यालय अधिकारी
राष्ट्रीय सेवा योजना
श्रीराम कला महिला महाविद्यालय
धामणगांव रेल्वे

Scanned by CamScanner

Ozone Day Programme 2019

संत गाडगे बाबा अमरावती विद्यापीठ अमरावती संलग्नित

श्रीराम शिक्षण संस्था द्वारा संचालित

श्रीराम कला महिला महाविद्यालय धामणगाव रेल्वे

• कार्यक्रम अहवाल •

कार्यक्रमाचे नाव - ओझोन दिवस

आयोजक - वेळ/स्थळ - अगोळ विभाग दुपारी ३.०० वा. अगोळ विभाग

कार्यक्रमाचे वक्ते/व्याख्याते/पाहुणे - प्रा. एन. मु. राऊत, प्रा. आर. ए. भाडे, प्रा. ज. व. तिवडे

सहभाग - बी.ए. भाग १ २ व ३ विद्यार्थी-विद्यार्थिनी प्रा. ए. पी. वेड दिनांक १६ सप्टेंबर २०१९

कार्यक्रमाचा उद्देश -

महाविद्यालयातील अगोळ विभागातर्फे दि. १६ सप्टेंबर २०१९ रोजी "ओझोन दिवस" हा कार्यक्रम घेण्यात आला. या कार्यक्रमाद्वारे विद्यार्थ्यांना ओझोन वायूचे महत्त्व व ओझोन वायूची - हायड्रोक्लोरिक एसिडच्या आपत्ती, विखरीलावून देण्यात आले. या कार्यक्रमाचा प्रमुख उद्देश हा पृथ्वीवरील ओझोन वायूची घटती प्रमाणावरून विद्यार्थ्यांना जाणीव जागृती निर्माण करणे हा होता. या शिवारात ओझोन वायूची रचना पाहणे, सर्वसाधारण जागरीक कशा प्रकारे प्रदूषण करत असतात याचे महत्त्व समजावून सांगणे हा होता.

कार्यक्रमाविषयी थोडक्यात

महाविद्यालयातील अगोळ विभागातर्फे दि. १६ सप्टेंबर २०१९ रोजी ओझोन दिन हा कार्यक्रम घेण्यात आला. या कार्यक्रमाचे अध्यक्षस्थानी प्रा. एन. मु. राऊत प्रमुख आतंथी प्रा. ज. व. तिवडे, प्रा. रा. स. भाडे, प्रा. ए. पी. वेड हे होते. कार्यक्रमाचे अध्यक्ष प्रा. एन. मु. राऊत यांनी ओझोन पराधन हा काढाचा गजर सुरुवात घेता घेतला. तसे प्रमुख आतंथी प्रा. रा. स. भाडे यांनी माझीच घटती प्रमाणावरून पृथ्वीवर निर्माण होणाऱ्या वायूच्याची चर्चा करी. अगोळ विभाग प्रमुख प्रा. ए. पी. वेड यांनी ओझोन घटती प्रतिस्पर्धीक लोकां कशा प्रकारे आले त सांगत ओझोन वायूची रचना पाहणे, सर्वसाधारण जागरीक कशा प्रकारे प्रदूषण करत असतात याचे महत्त्व समजावून सांगणे हा होता. या कार्यक्रमाचे बी.ए. भाग १, २, ३ च्या बहुतेक विद्यार्थ्यांनी सह उपस्थित होता.

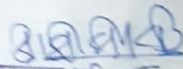
2019-20

One Day 16 Nov



औद्योगिक दिवस - 16 नवंबर 2019


Principal
Shriram Kala Mahila
Mahavidyalaya
DHAMANGAON RL


कार्यक्रम अधिकारी
राष्ट्रीय सेवा योजना
श्रीराम कला महिला महाविद्यालय
धामगांव रेल्वे

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16.09.2019 Geography Dept. Organise
OZONE DAY.

The **Hitavada**
NAGPUR ■ Wednesday ■ September 18 ■ 2019

Shriram Mahavidyalaya, Dhamangaon Rly


SHRIRAM Kala Mahila Mahavidyalaya, Dhamangaon Rly observed International Ozone Day in the Department of Geography. Prof Nandkishor Raut chaired the programme while Abhijeet Doad, Nitin Bihade and Rajesh Ade were prominent among those present. Sakshi Deshmukh anchored the programme and Vaishnavi Dhote proposed a vote of thanks.




Guests at the Ozone Day programme.

Dadarao Uike worked hard for success of the programme.

Colleges in Vidarbha can send their news items on
vidarbhaline@gmail.com


Principal
Shriram Kala Mahila
Mahavidyalaya
DHAMANGAON RLY


H.O.D.
Dept. of Geography
Shriram kala Mahila
Mahavidyalaya, Dhamangaon Rly.

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