Green and Environmental Audit Report



ISO 9001:2015



NAAC Accredited "8++" Grade Attiliated to Stevaji University, Kolhapur Estd. : June 1962

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार" - शिक्षणमहर्षी डॉ. बापजी साळुखे

Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchlit, PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

Submitted to

Internal Quality Assurance Cell (IQAC)

12 AUGUST 2021

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ACKNOWLEDGEMENT:

Green Audit Assessment Team thanks the Management of Shri Sscanu Visekanand Shikshan Sanstha Kolhapur Sanchalit, Padmahlushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon for assigning this important work of Green Audit to DS Energy Consultancy and services, Sangli, We appreciate the cooperation to our Team for completion of study.

Our special thanks to Principle of college Dr. Milind S. Hujare, former coordinator 10 M. Dr. S. S. Paril, IQAC coordinator Dr. Alaka Inamdar, all head of the departments, teaching and non-teaching stafffor giving us necessary inputs to carry out this vital exercise of Green Audit.

We are also thankful to other staff and office members who were actively involved while collecting the data and conducting field measurements.



Even. 12/08/21

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DISCLAIMER

Green Audit Team has prepared this report for Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchalit, Padmahhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

While all reasonable care has been taken in its preparation, details contained in this report have been complied in good faith based on information gathered.

It is further informed that the calculations are arrived flowing best estimates and no representation, warranty or undertaking, express 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.

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EXECUTIVE SUMMERY

The rapid urbanization and economic development at local, regional andglobal levelhas led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the green campus for the institute which will lead for sustainable development. In accordance with the Green Campus Evaluation Plan, as suggested by the Internal Quality Assessment Cell (IQAC) of the college, Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchalit, PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON planned for conducting a green audit of the college in April, 2021. After the field work and other formalities, the report was finally sent for approval to the authority (Principal and IQAC) in September 2021.

The purpose of the audit was to make sure that the practices followed in the campus are healthy and environment friendly. With this in mind, the specific objectives of the audit were to evaluate the degree to which the Departments are in compliance with the applicable regulations, policies and standards and to ensure that the development of the college aims at sustainable development and green campus. It works on several facets of green campus including water conservation, Electricity conservation, Tree plantation, Waste management, paperless work, Mapping of biodiversity. The methodology used included physical inspection of the campus and review of the relevant documentation. It can make tremendous impact on students' health and learning, college operational cost and the environment.

INTRODUCTION

Environmental audit or Green Audit is a systematic, documented, periodic and objective review by regulated entities of facility operations and practices related to meeting environmental requirements (EPA, 2003). In other words, it is a management tool comprising systematic, documented. Periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of helping to safeguard the environment by facilitating management control of practices and assessing compliance with company policies which would include regulatory requirements and standards applicable. (International Chamber of Commerce, 1989)

Environmental auditing is essentially an environmental management tool for measuring the effects ofcertain activities onthe environmentagainst set criteria orstandards. Depending on the types of standards and the focus of the audit, there are different types of environmental audit. Organizations of all kinds now recognize the importance of environmental matters and accept that their environmental performance will be scrutinized by a wide range of interested parties. Environmental auditing is used to investigate, understand and identify opportunities for better greencampus.

Utility of Green Auditing

These are used to help improve existing human activities, with the aim of reducing the adverse effects of these activities on the environment. An environmental auditor will study an organization's environmental effects in a systematic and documented manner and will produce an environmental audit report.

STATEMENT OF ASSURANCE

This audit already has been conducted in 2018-19 for the first time in the college. This green audit 2020-21 is mainly to check the implementation of energy conservation techniques which are suggested in previous green Audit Report 2018-19. Since last two years college has been trying to fulfill recommendations. The audit procedure tried to meet the terms of International Standards of Internal Auditing. In our decision, sufficient and appropriate audit procedures were completed and evidence gathered to support the precision of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit.

SUMMERY OF FINDINGS

The main findings of the audit show that, in general, all the departments and students are aware about the need for environmental protection at a general level. It was also observed that a number of best practices such as maintaining garden, green plantation (Mulberry Plantation) in the campus, Vemi-composting to ensure a proper waste management technique, Rain water harvesting to ,Implement better water management technique etc. are followed in the campus. However, on detailed review, it was observed that, as the college is implementing Green Campus Policyforthe first time, many of the practices followed in the institution are still in nascent stage and needs further nurture. In addition, certain processes could benefit from further review in order to improve their efficiency, fairness and consistency.

OBJECTIVES AND SCOPE

The main objectives of the green audit are to promote the environment management and conservation in the college campus. 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

- To introduce and make aware students to real concerns of environment and its Sustainability
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus
- **4** To establish a baseline data to assess future sustainability by avoiding the interruptions inenvironmentthataremoredifficulttohandleandtheircorrectionsrequireshighcost.
- **4** To bring out present status report on environmental compliance.

ABOUT COLLEGE

Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchalit, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon was established on June 1962. The college is situated in a culturally rich locale, on the Sangli- Tasgaon Road, Tasgaon. It was founded by Shikashanmaharshi Dr. Bapuji Salunkhe with the aim of spreading education in rural area. Gradually the collegegainedeminence, notonlyfrom Tasgaonbutalso from nearby places.

Shri Swami Vivekanad Shikshan Sanstha Kolhapur Sanchalit, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon is a NAAC (B++ Grade) and 56 years old college having Three streams- Arts, Commerce, Science and computer applications This is a government aided UGC-approved and NCTE recognized college affiliated by the Shivaji University. The college is situated on a beautiful campus of 11 acres inside The college building is located in a rural backdrop amidst lush green surroundings. The college has academic buildings and 1 hostel building. The college has an intention to adopt the 'Green Campus' system for environmental conservation and sustainability.

The goal is to reduce CO₂ emission, energy and water usage, while creating an environmentally literate campus where students can learn the idea of protection of environment and stay healthy. The 'Green Campus' has been a very new concept adopted by this college. The college administration is still working on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, carbon footprints and Alternative Energy.

AUDIT GOALS OF THE COLLEGE

The college, with the advice of the Internal Quality Assessment Cell (IQAC) has setup an environmental quality assessment body (GREENCAMPUS) that aimed at performing the green audit of the institution. The main objectives of the audit are:

- > More efficient resource management
- > To provide basis for improved sustainability
- ➢ To create a green campus
- To enable waste management through reduction of waste generation, solid-waste and water recycling
- Recognize the cost saving methods through waste minimizing and managing
- > Point out the prevailing and forthcoming complications
- Impart environmental education through systematic environmental management approach and Benchmarking for environmental protection
- > Financial savings through a reduction in resource use
- ➢ Enhancement of college profile

METHODOLOGY

The Green Audit taken up by the Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon had been divided into three stages:

The Pre Audit Stage:

In the pre-audit stage, meetings provide an opportunity to support the capacity and objectives of the audit and enable discussions on the feasibility associated with the audit. The meeting provides the first opportunity to meet the audit and deal with several practical knowledge and concerns. The meeting provided the chance to gather information that the audit team can study before arriving on the site. The audit procedure and audit plan was handed over at this meeting and discussed in advance of the audit itself. In Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, the planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit over at this meeting and discussed in audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit plan were handed over at this meeting and discussed in advance of the audit itself.

The Management of the college has shown the commitment towards the green auditing during thepre-audit meeting. They were ready to encourage all green activities. Itwasdecided to promote all activities that are environment friendly such as awareness programs on the environment, campus farming, planting more trees on the campus, etc., after the green auditing. The management of the college was willing to formulate policies based on green auditing report.

The Audit Stage:

The Audit Stage encompasses of the team selection and the field works performed. Looking after the unique structure, location and ambiance of the college, the Green Audit Team focused on Material Issues pertaining to college which have the highest influence on the Green Attributes of the College. The Audit stage also focused on the Methodology adopted. Checklist approach is adopted for transparent evaluation of the topics and increase readability for independent reader.

The Post Audit Stage:

The post-audit stage ensures formulation of Draft findings and sent to management response. Since the audit is done internally, it was important to ensure management approval for the draft. After getting draft approval, the audit team went for final report formulation.

The methodology adopted to conduct the Green Audit of the Institution had the following components.

Onsite Visit :

The Green Audit Assessment Team started the audit at the Institution on (write date) which extended for about 3 days. Greenhouse gas emissions and carbon footprint reduction through adoption of green energy and energy-efficient measures were assessed. The key focus was on assessing the status of the green cover of the Institution.

Focus Group Discussion :

The Focus Group included staff members and management people. The discussion was focused on identifying the attitudes and awareness towards environmental issues at the institutional, district, national and global level. The discussion evolved around three key questions: Do the members of the group consider themselves eco-conscious? Do they consider the Institutiontobeeco-friendly?Whatdotheythinkaretheissuesthatneedtobegiventop priority?

Office/Building Survey :

Information on office-based environmental impacts like built-up area, utility bills, energy-saving devices and IT equipment was collected. This information was added to the carbon footprint data, generating a fairly clearer picture of the Institution's annual greenhouse gas emissions and impact of the reduction measures undertaken.

Carbon Footprint :

Data collected from the following sources were taken into consideration to calculate carbon footprint emission and reduction. The floristic richness of the campus – total number of plants, trees, shrubs – was estimated. The impact of alternate green energy production and consumption to reduce fossil fuel-based energy was assessed, e.g. the number of CFL, LED, tube lights and electronic chokes was counted. The Carbon

e.g. the number of CFL, LED, tube lights and electronic chokes was counted. The Carbon Footprint Calculator was used to arrive at conclusions.

Carbon Footprint Calculator enables the measurement of carbon emission by the Institution. Besides, by breaking down the value to key 'carbon drivers', the institution can know how much of carbon footprint comes from which type of behaviour (high powerconsuming ncandescentbulbsvs. LED lights, solid waste management, etc.).

AUDIT FRAMEWORK AND DETAILED FINDINGS

The following audit framework is used for conducting Green Audit in 2020-21. The framework also lists the findings and observations for every criterion.

A] WATER MANAGEMENT:

I) <u>Rain Water Harvesting:</u>

The **Rainwater harvesting** is the simple collection or storing of **water** through scientific techniques from the areas where the **rain** falls. It involves utilization of **rain water** for the domestic or the agricultural purpose.

In the campus, roof runoff water is collected through network of pipelines and stored in the tank. The total capacity of storage is 144 cubic meters. The remaining roof runoff water is allowed to infiltrate in the ground for recharge. The stored water is used for gardening and washing of vehicles.

This practice has solved the problem of deficiency of water and ground level of water has increased. The stored water is supplementary for the gardening and washing vehicles.

Water Harvesting Capacity of PDVP Campus:

Terrace Area (water collecting surface): 837 Sq. meters

Area m ²	Average Depth of rainfall (m)	Volume of Runoff (m ³)	30% losses	Total quantity (m ³)
837	0.4	334.8	100.44	234.36

Total quantity of Runoff = 234.36 cubic meters

Storage tank for rainwater harvesting = 144 cubic meters

The available total capacity of harvesting in campus = 90.36 cubic meters

Audit Observations:

- Regular checking and maintenance of pipelines are done to control water wastage.
- Water pipelines are arranged properly to collect the rain water from terrace to storage tank on ground.
- 4 Proper cleanliness has maintained around the water storage area.
- No Water recycle Mechanism is adopted



Recommendations:

- 4 It is recommended to construct secondary water storage tank for excess water collecting.
- 4 Use of cover plate or any covering material on water area will be helpful for cleanliness.
- 4 Use an efficient and hygienic water storage mechanism to minimize the loss of water during

storage

- 4 Encourage to decrease excess water usage.
- 4 Install water recycling mechanism.

II) <u>Water distribution system: Borewell</u>

Underground water is one of the important sources of water in urban areas. With increasing urbanization, underground water has indiscriminately exploited causing depletion in water table and water availability. To reduce the effect of over exploitation, ground water discharge need to be taken up in large scale at residential and institutional buildings.

College has used rainwater from the roof and allowed to flow through filters and recharge ground water from bore well. During heavy rainfall, water level in well raises and subsequently descends to maintain the ground water level. Total terrace area for ground recharge is 570 sq.meter.



Audit Observations:

4 the college has 3 aqua guard filters installed in all departments.



- Though water is used nominal in the college, but to ensure a further minimal rate, placards and warnings are set up in the college premise.
- 4 Campus has efficient plumbing system from maintenance and operation point.
- Drip irrigation (this refers to plant watering system) is observed in campus to minimize wastage of water.



Recommendations:

- It is recommended to use aerators to water taps, automatic toilet faucets and dual flush toilet with cistern.
- Use of low flow/ flow control water equipment or gadget.
- Water distribution diagram/ water network/ water balance diagram would be useful for monitoring and reducing water consumption.
- Sewage treatment plant for treated sewage recycle would be useful for recycling water after treatment.

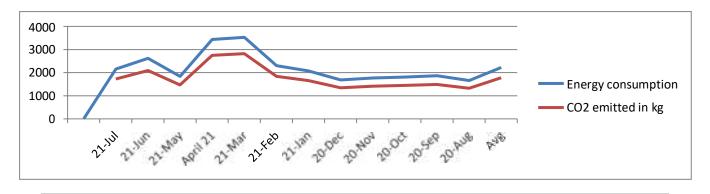
B] ENERGY MANAGEMENT

CARBON-Di-OXIDE EMISION

For consumption of 1 Unit (1 kWh) of Electricity, the CO2 emitted is 0.8 Kg. OR the Emission is 0.8 Kg/kWh. In the following Table we present the total units consumed and CO2 emitted asunder:

Sr.No	month	Energy consumption	CO ₂ emitted in kg
		(kWh)	
1	July 21	2153	1722.4
2	June 21	2615	2092
3	May 21	1832	1465.6
4	April 21	3436	2748.8
5	March 21	3525	2820
6	Feb 21	2301	1840.8
7	Jan 21	2071	1656.8
8	Dec 20	1680	1344
9	Nov 20	1763	1410.4
10	Oct 20	1805	1444
11	Sept 20	1861	1488.8
12	August 20	1655	1324
	Avg	2224.75	1779.8

Chart: Monthly CO₂ Variation



a) Audit Observations:



Hybrid (Solar with wind miles) energy generation system is available in college campus. The device has rated power 2KW.

Assuming total working hours -4 hours

Total kWh or units energy obtained from renewable source is 8 kWh

- The college also has 1 ecofriendly generator for the supply of emergency electricity to save our ecosystem.
- 4 ThecollegeisplanningforintroductionofSOLARPANNELs.
- 4 Thecollegeisusing LEDlights as expected.
- College ensures that all electronic and electrical equipment, such as computers, are switchedoffwhennotinuseandis generallyconfiguredinpowersavingmodewhensuch option is available
- 4 Thecollege tries to put themain switch off when there is no need of electricity.

b) Recommendation:

- Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity
- 4 Look in tothepossibility of on-site micro-generation of renewable electricity.
- Give preference to the most energy efficient and environmentally sound appliances available, this includes only using energy-saving light bulbs
- Encourage staff, students and conference guests to save energy through visible reminders, incentives and information to increase awareness. This particularly concerns turning off electrical appliances when not in use.

C] GREEN CAMPUS



The Carbon Audit tools and analysis methodology were developed collectively by the Green Audit Team and based on that the audit was conducted in three major thematic areas. Carbon footprint is historically defined as the total set of greenhouse gas emissions caused by an individual, event, organization or product, expressed as carbon dioxide equivalent. Collected data at college campus is given below.

Sr.No.	Type of trees	No. of trees/ area
1	Full grown trees	300
2	Semi grown trees	800
3	Bushes	500
4	lawn	60X30

<u>A] Tools to measure Carbon Absorbtion:</u>

Assumptions

1. Number of mature trees in 1 acre = 700

2. Carbon absorption capacity of 700 trees is equivalent to carbon emitted by a speeding car for 26,000 miles

3. 26,000 miles = 41,843 km

4. Average kilometers covered by a car per litre of petrol is 20 km

5. Total quantity of petrol consumed by the car (41,843/20) = 2092 litres

Thecarbonemittedbyacarduetoconsumptionof1litreofpetrolis2.3kgCO2.
 At this rate the total quantity of carbon emitted by 2092 litres of petrol (2092 × 2.3 kg) = 4812 kg
 CO2 or 4.8tonnes of CO2.

Therefore, the carbon absorption of one full-grown tree is 4812/700 = 6.8 kg CO2.

The footprint calculation is based on the standard unit of 1 litre petrol = 2.3 kg CO2.

1. Carbonabsorptioncapacityofone full-grown tree= 6.8 kgCO2.

2. Therefore the carbon absorption capacity of 300 full-grown trees in the campus of the Institution

$(300 \times 6.8 \text{kgCO2}) = 2040 \text{ kgofCO}_2.$

3. The carbon absorption capacity of 120 semi-grown trees is 50% of that of full grown trees. Hence, the carbon absorption

$(800 \times 3.4 \text{ kg CO2}) = 2720 \text{ Kg of CO}_2$.

4. There are 500 bushes of various species being raised in the gardens of the Institution.

Carbon absorption of bush plants varies widely according to the species. Certain bushes absorb as high as 49,000gCO2per plant,whereassomeothersabsorbaslowas150gCO2perplant.Inthe absenceofa detailed scientific study andbotanical survey, the per-plantcarbon absorption was assumed to be 200 g (in consultation with environment scientists). Based on this, the total carbon absorption of 500 plants was calculated to be

500 × 200 g = 100000 g or 100kg.

5. College has lawn around 60 X 30 Sq.m. Buffalo variegated grass, Mexican grass and indigenous grass speciesarebeingraisedandmaintainedinthelawn.

 $The total area of the lawn is 1800 \text{sq.m.i.e} 19375 \,\, \text{Sq.ft} \,\, the carbon \, absorption \, capacity of a 10 \, \text{sq.ft.} area of lawn is 1 gCO2.$

Hence, for 19375 sq.ft. of lawnabsorbs1937.5gor2kgCO2perday.

At this rate, the total carbon absorption per year

(2kgx365)= 730 kg

Sr No.	Type of trees	No. of trees/ area	Quantity of CO2 absorption per tree	Total quantity of CO2 absorbed (Kg)
1	Full grown trees	300	6.8 kg	2040 kg
2	Semi grown trees	700	3.4 kg	2720 kg
3	Bushes	500	200 gram	100 Kg
4	lawn	60X30	10/sqft	730 Kg

B] Tools to measure oxygen emission:

According to the Arbor Day Foundation, 'a mature leafy tree produces as much oxygen in a season as 10 peopleinhale in ayear' Aperson breathes 7 or 8 litres of air perminute. Air is about 20% oxygen. But the exhaled air has about 15% oxygen, and hence the net consumption is about 5%. Therefore, a person uses about 550 litres of pure oxygen each day.

Calculation of oxygen emission by flora:

Thenumber of litres in 1kilogram depends on the density of the substance being measured. Litre is a unitofvolume, and kilogram aunitof mass. Litres and kilograms are approximately equivalent when the substance measured has a density of close to 1 kilogram per litre. On average, one full-grown tree produces nearly 117.6 kg of oxygen each year. Two mature treescanprovideenoughoxygenforafamilyoffour. Totaloxygenemittedby 220full-grown trees per year

 $(117.6 \text{ kg} \times 300) = 35280 \text{ Kg of } O_2$

2. One semi-grown tree produces 58.8 kg of oxygen peryear.

Total oxygen emitted by semi-grown trees (oxygen emission is 50% of that of the full-grown tree).

$(58.8 \text{ kg} \times 700) = 41160 \text{ kg of } O_2$

3. Total oxygen emitted by 500 bushes is calculated based on the following oxygeninhaling requirement per person per day. A normal human being requires 550 litres of oxygen per day. 400 bushes produce enough oxygen per day to enable a person to breathe adequate quantity of oxygen of 550 litres.

Total quantum of oxygen produced by 400 plantsper day is 550 litres of oxygen.

Taking 400 plants as one unit, the number of units of bushes in the campus (500/400) =

1.25

Total quantity of oxygen produced by 1.25 units is $(1.25 \times 550 \text{ litres}) = 687.5 \text{ litres of}$ oxygen per day.

The annual production of oxygen at this rate

(687.5 × 365) = 250,937.5 litres or kg of oxygen per year

4. Lawn is an incredible oxygen-making machine. A 25-sq.ft. area will supplyenough oxygen to support one person for a day. Quantitatively speaking, this area of grass produces 550 litres of oxygen per day.

The total area of lawn in the campus is 19375 sq.ft.

In units, the value (19375/25) = 775 units,

which produce $(775 \times 550 \text{ litres of oxygen}) = 426,250 \text{ litres of oxygen per day.}$

Total quantity of oxygen produced by the 19375 sq.ft. of lawn per year

(426,250 litres/day × 365) = 155,581,250 litres or kg of oxygen per year.

Sr.No.	Type of trees	No. of trees/ area	Quantity of oxygen emmision per tree per year	Total Quantity of oxygen emission in kg
1	Full grown trees	220	117.6 kg	35280 kg
2	Semigrowntrees	120	58.8 kg	250937.5kg
3	Bushes	500	687.5 kg per day	250,937.5 Kg
4	lawn	60X30	426,250 kg per day	155,581,250 Kg

Summary:

Sr. No.	Type of trees	No. of trees/ area	Quantity of CO2 absorbtio n per tree	Total quantity of CO2 absorbed (tonnes)	Quantity of oxygen emmision per tree	Total Quantity of oxygen emmision
1	Full grown trees	220	6.8 kg	1496 kg	117.6 kg	25,872 kg
2	Semi grown trees	120	3.4 kg	408 kg	58.8 kg	7056 kg
3	Bushes	500	200 gram	100 Kg	687.5 kg perday	250,937.5 Kg
4	lawn	60X30	10/sqft	730 Kg	426,250 kg per day	155,581,250 Kg
	Total			2734 kg or Approx. 3 Tonne per year		155,865,115.5 kg 155,865.115 tonne per year

a) Audit Observations:

4 College already has a well maintained garden.



- The college celebrates an annual tree plantation program in the campus where students and teachers plant trees in the campus.
- Moderate amounts of bio-fertilizers are used in the college.
- Negligible amounts of washing liquids are used in the college and all the toilet cleaners are not eco-friendly.
- 辈 Green education has been given to improve environmental awareness
- College has been reducing, reusing and recycling the products such as books, electronic appliances etc (e.g. at he time of de-selection and disposal of library material
- 4 Digitalization of majority of processes has been done.
- 4 College has been providing E- Resources: E books, Online Journals to save papers.

SOIL TO SILK

SOIL TO SILK A HANDS ON TRAINING PROGRAMME in **"Sericulture and Silk worm rearing"** has been carried out for 28 days. The training programmes have covered following subjects: 1)Mulberry cultivation.

2)Silkworm rearing (Young age and Late age silkworm rearing),

3)Silkworm seed production technology,

4)Extension management and transfer of technology, and Post cocoon technology



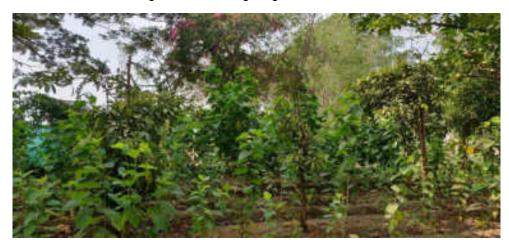
Mulberry Plantation:



as a unique plant on this earth due to its broader geological distribution across the continents; ability to be cultivated in different forms; multiple uses of leaf foliage and its positive impact in environmental safety approaches such as eco-restoration of degraded lands, bioremediation of polluted sites, conservation of water, prevention of soil erosion and improvement of air quality by carbon sequestering

It has issued as a medicinal plant in improving and enhancing the life of human beings by utilizing the biologically active pharmacokinetic compounds found in leaf, stem and root parts. Further industrial exploitation of mulberry through preparation of various products in pharmaceutical, food, cosmetic and health care industries has gained the \attention of industrialists

As mulberry is being exploited by sericulture, pharmaceutical, cosmetic, food and beverage industries along with its utilization in environmental safety approach; it is appropriate to call it as a most suitable plant for campus plantation



b) Recommendation:

- Encourage the faculties and students to plant trees in the garden.
- Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. are biodegradable and non-toxic
- 4 Dispose the chemical waste generated from the laboratories in a scientific manner.
- 4 Create "Green Team" in the institution to increase awareness among students.
- **E** Publishing reviews of new green resources in the newsletter or news.
- Recycling beyond paper i.e. plastic, e- waste.

D] WASTE MANAGEMENT

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, glass, dust etc. Furthermore, solid waste often includes wasted material resources that could otherwise be channeled into better service through recycling, repair and reuse. Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone.

The present Prime Minister of India Sri Narendra Modi launched 'Swachh Bharat Abhiyan' (Clean India Mission) on 2nd October, 2014. In this mission, the proper use of dust/waste bins is one of the major priorities. For the implementation of this mission, collective mass effort is necessary. For proper segregation and management, proper use of waste bins is the only solution for waste management purpose in the college campuses.

a) Audit Observations:

I) <u>VERMICOMPOSTING:</u>

Vermicomposting is an environment friendly, low-technology method for the disposal of organic waste. It is the process in which the worms are used to convert the organic materials (usually wastes) into a humus-like material which is known as the vermin-compost.

It is one of the easiest methods to recycle agricultural wastes and to produce quality compost. The resultant vermicompost produced is very beneficial for plant growth and health. The values, fertility and productivity of organic waste which has been returned to soil can be improved by beneficial impacts on soil resources and other processes. The production of organic wastes by the use of vermin compost technology is remarkably an effective technology for the reduction in processing time and also beneficial for the production of nutrients which are essential for the plants growth.

It is a key component of the integrated plant nutrient supply system in order to maintain a healthy fertilization system along with maintaining safety. This organic fertilizer is considered to be present in both agriculture and horticulture as an alternative to the inorganic fertilizers in greenhouse.



Preparation of bed for vermin-composting

Quantity of Waste generated:

- Biodegradables 1kg/Day (office, classrooms)
- Non Biodegradables 1 & ½ kg/Day (office, classrooms)
- Biodegradable-1kg/day(labs)
- Non- Biodegradable- ¹/₂ kg /Day (including glass bottles)
- Hazardous waste -150gm/Day
- Canteen waste: Biodegradables- 20kg/Day

Non-Biodegradables – 1/2 kg/Day

Total Waste:

Biodegradablewaste-22kg/Day

Non- Biodegradables- 2 3/4 kg/Day

Hazardous waste – 150 grams/ Day

Skill Oriented Training Programme for non teaching staff on 'Vermicomposting organized by Department of Zoology.had organized a 30 days training programme, from 22nd July 2020 to 21st August, 2020 on 'Vermicomposting' to cover a total duration of 200 hours. The said training programme imparted theory as well as practical (hand-on) exposure on vermicomposting and management of organic wastes in agriculture for productivity improvement and livelihood security.

II) <u>CHEMICAL EFFLUENT TREATMENT PLANT:</u>

PDVP college is committed to the green campus philosophy and to saving the precious treasure of nature. This chemical effluent treatment plant consists of all the process units which help to minimize the chemical and biological load.

This is used to treat waste water coming out from chemistry department. Effluent Treatment Plant (ETP) is a process design for treating the chemical waste for its reused or safe disposal to the environment.



- 4 The college does not have any such recycling device to carry on the waste recycle procedure.
- The college has set up separate bins to ensure proper segregation and collection of the various wastes. The responsibility of recyclable waste is however still not taken up the college.
- The college organized several seminar and community program by the departments to ensure both consciousness and awareness among students and community members.
- All dry wastes (paper, metal, glass, other dry waste, e-waste, etc.)are separated in different bins in the college and resell to the local vendor

a) Recommendation:

- Make full use of all recycling facilities provided by Gram Panchayat and private suppliers, including glass, cans, white and brown paper, batteries, print cartridges, cardboard and furniture.
- The color coded bins for different wastes are placed at different locations of the campus for collection of waste and its easy sorting at source.

Dispose all waste, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment

ፋ Recycle and reuse of kitchen wastes (from canteen and hostels) and garden waste

E] CARBON FOOTPRINT

Solar water heater at hostel:

Resident: 100

Assuming an average requirement of 20 L of hot water perday

Thus daily amount of hotwater used= 100x20 = 2000 L

Anaverageflatplate collector area of 2 m² gives 125Lofhotwater perday.

Required collector plate area = 16 m2

Availablecollectorplatearea=20m2

Solar water heater is successfully used in Girls hostel

a) Use of Renewable Energy

Hybrid(Solarwithwindmiles)energygenerationsystemisavailableincollegecampus. Thedevice has rated power 2KW.

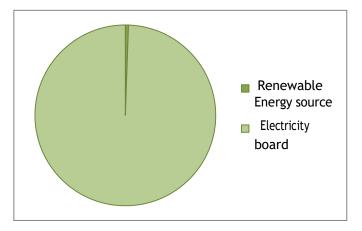
Assuming total working hours -4 hours

Total kWh or units energy obtained from renewable source is 8 kWh Equipment

working on renewable energy

Sr. No	Equipment	Quantity	Actual consumption by equipment	Total Energy consumption in kWh or units
1.	Computer	1	520 W	520W x 4 = 2080Wh 2.08kWh
2.	Printer	1	200 W	200W x 4 = 800Wh 0.8 kWh
3.	Tube light	2	40 W	80W x 4 = 320Wh 0.32 kWh
4.	Fan	2	78 W	156W x 4 = 624Wh 0.624 kWh
			Total	5.736 kWh

Total daily energy consumption by Renewable Energy source = 3.824 kWh Therefore monthlyenergyconsumptionby Renewable Energy source = 21.92 kWh MonthlyAverageenergyconsumptionbyElectricityboard = 3862.25 kWh



a) Audit Observations:

- About 60% ofthestudents andteachingandnon- teaching staffs ofthecollegeusebicycle as themainmodeoftransport.Thecollegealsoencouragestransportbybicycleto students.
- CollegeencouragesUGCprojectsonsustainabledevelopment/naturalresources.Thereis compulsory ENVS paper of 100 marks in the University Syllabus for all the students ofall streams to develop Environmental Awareness.
- Collegedoesnotdirectlyorindirectlyparticipateindepletionanddegradationofnatural resources
- Seminars andawareness programs are conducted periodically onnature andnatural resources.

b) Recommendation:

- Ensure use of ecofriendly transport option
- Review architecture of existing buildings and reviews ways, in consultation with experts, to reduce usage of energy for such buildings, offering greatest efficiency for energy and water usage.
- Conduct environmental awareness posters and seminars as apart of theprogram

COMPREHENSIVE RECOMMENDATIONS

There exists vast scope to improve the green campus status of the College through biodiversity promotion and tapping green energy sources.

 Another 5,000 sq.ft. area of lawn shall be raised through the involvement of students from NSS or NCC to enhance oxygen emission by another 40%.

Solar panels shall be installed on top of the buildings to produce another 10,000 kW of electricity. To enhance solar power productivity, aluminium foil-based reflectors shall be installed on the eastern and western sides of the solar panel.

- 2. Energy-efficient measures such as replacement of all incandescent bulbs with LED lamps, old electrical regulators of fans with energy-efficient electronic regulators, air-conditioning units with all-star rated systems need to be undertaken.
- 3. Students from the Computer Science Department shall be trained as e-waste managers to manage e-waste. These e-managers shall be in constant touch with schools, orphanages and parish housesthroughsocialmediaandinformthemoftheoutdatedcomputersystemsthat shall be used by them. They also shall dispose of the less efficient, damaged and non- functioning e-wastes to the vendors.
- 4. Biogas plants shall be installed in the campus using solid waste and night soil generated from the Girls Hostel in the campus. The biogas shall be used by the Hostel Kitchen and College canteen.
- 5. Water quality testing laboratory will be installed in one part of the laboratory to test the the drinking water to ensure the students are free from water-borne diseases. All the water taps shall be fitted with high-efficiency aerator taps to reduce wastage of water. All toilets shall be fitted with dual flush water closets, which will reduce water consumption by 40%.
- 6. Environment education shall be imparted to all college students through 1-hr life-skill classes once a week. This will create wide-level environment consciousness among the student community. They will be sensitized to encourage pillion riding with their peers or use public transport instead of two wheelers. Moreover, they will also motivate their parents to replace all the incandescent or fluorescent bulbs with energy-efficient LED bulbs.

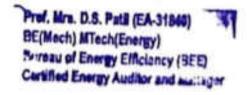
PHOTOGRAPHS



TREE PLANTATION CAMPAIGN UNDER NATIONAL SERVICE SCHEME (NSS) PDVP COLLEGE TASGAON. (Principal Dr.Milind Hujare)

TREE PLANTATION CAMPAIGN UNDER NATIONAL SERVICE SCHEME (NSS) PDVP COLLEGE TASGAON.

[IQAC coordinator Dr.Alka Inamdar]





Energy Audit Report 2020-2021



ISO 9001:2015



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"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार" - शिक्षणमहर्षी डॉ. बापुजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchlit,

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

Submitted to Internal Quality Assurance Cell (IQAC)

20 AUGUST 2021

Company Name: D S Energy Consultancy and Services, Sangli Authored by: Mrs. D. S. Patil (BEE Certified Energy Auditor)

ACKNOWLEDGEMENT:

Energy Audit Assessment Team thanks the management of Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchalit, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon for assigning this important work of Green Audit to DS Energy Consultancy and services, Sangli. We appreciate the cooperation to our Team for completion of study.

Our special thanks are to Principle of college Dr. Milind Hujare, former IQAC coordinator Dr.S.S.Patil and IQAC coordinator Dr. Alaka Inamdar, all head of the departments, teaching and non- teaching staff for giving us necessary inputs to carry out this vital exercise of Energy Audit.

We are also thankful to other staff and office members who were actively involved while collecting the data and conducting field measurements.



Sunt 20/08/21

Prof. Mrs. D.S. Petil (EA-31840) BE(Mech) MTech(Energy) Bureau of Energy Efficiency (BEF) Certified Energy Auditor and Maximum

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAVA, TASGAON 2 ENERGY AUDIT REPORT

DISCLAIMER

Energy Audit Team has prepared this report for Shri Swami Vivekanand Shikshan Sanstha Kolhapur Sanchalit, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

While all reasonable care has been taken in its preparation, details contained in this report have been complied in good faith based on information gathered.

It is further informed that the calculations are arrived flowing best estimates and no representation, warranty or undertaking, express 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.

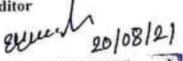
Prepared by:

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M.Tech(Energy Technology), B.E.(Mech)

Bureau of Energy Efficiency certified Energy Auditor

No: EA 31840



Prof. Mrs. D.S. Patil (EA-31840) BE(Mech) MTech(Energy) Bureau of Energy Efficiency (BEE) Certified Energy Auditor and Manager

ENERGY AUDIT REPORT

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ENERGY AUDIT REPORT

SUMMARY

The objective of the audit was to study the energy consumption pattern of the facility, identify the areas where potential for energy/cost saving exists and prepare proposals for energy/cost saving along with investment and payback periods.

The salient observations and recommendations are given below.

- 1. Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon uses energy in the following forms:
- a) Electricity from MSEDCL
- b) High Speed Diesel (HSD)
- c) Solar wind Hybrid Energy Source
- Electrical energy is used for various applications, like Computers, Lighting, Air-Conditioning, Fans, Other Lab Equipment

The average energy consumption is around 2224.75 kWh/Month.

- 3. The Specific Energy Consumption (SEC) is the ratio of energy required per square meter. In this case the SEC is evaluated as electrical units consumed per square meter of area. It is calculated as under: For Electricity: 0.6 kWh/Sq m
- 4. It has found that there is wide scope for energy saving and pollution free campus development. Recommendations with cost benefit analysis have given in detail in report.
- 5. Total potential for energy saving within all campus is approximately **Rs. 0.60+**Lakh per annum.

ENERGY AUDIT REPORT

ABBREVIATIONS

AHU	- Air handling unit
APFC	- Automatic Power Factor Controller
DG	-Diesel generator
ECP	-Energy Conservation Proposal
GCV	-Gross Calorific Value
HVAC	- Heating, Ventilation and Air Conditioning
HSD	-High speed diesel
kCal	-Kilo-calories
FO	-Furnace oil
PF	-Power Factor
SEC	- Specific Energy Consumption
TR	-Tons of Refrigeration
UOM	- Unit of Measurement
MAHADISCO	-Maharashtra State Electricity Distribution Company

ENERGY AUDIT REPORT

INTRODUCTION OF ENERGY AUDIT

An energy audit is a process to study of a building or industry to know the energy consumption of the building and identify methods to reduce the energy consumption for energy savings. In Commercial Building, the present electrical consumption is about 8-10 percent of the total electricity. To meet the international level comfort and facilities the electrical demand is increasingly by 11-12 % annually. This is a challenge for every industry to ensure that energy growth in commercial building does not become unmanageable but also give and presents an opportunity to influence and identifies energy management issues in various commercial buildings and facilities. As the natural resources are limited and energy uses are increasingly very sharply so it is very necessary to save natural resources by reducing energy consumption which can be achieved by using energy efficient equipment's and also by awareness of peoples about energy conservation .Energy audit in industrial and commercial, is the process to identifying opportunities to reduce carbon footprints and energy conservation.

GENERAL

Padmabhushan Dr. Vasantraodada Patil Mahavidyakaya, Tasgaon entrusted the work of conducting a Detailed Energy Audit of campus at Tasgaon with the main objectives as below:

- To study the present pattern of energy consumption
- To identify potential areas for energy optimization
- To recommend energy conservation proposals with cost benefit analysis.

Case Study in Campus:

We are taking this opportunity to express our heartily gratitude to Padmabhushan Dr. Vasantraodada Patil Mahavidyakaya, Tasgaon for giving opportunity for carrying Energy Audit in campus We once again put up our appreciation for full cooperation & valuable guidance for perfect auditing of the Campus to technical as well as commercial persons for providing all the required information & data as well as for providing

ENERGY AUDIT REPORT

cooperation with all the departments & extend his best help in our work. We have tried our level best for the work of Energy Audit up to their satisfaction.

The major activities carried out during the audit are as follow:

• Collection of College's records regarding Electricity Power Bills, Power Distribution Diagram, Specifications of major power handling equipment – such as Fans, lighting and pumps.

• Analysis of above calculations, isolating the areas vulnerable to energy consumption not related to production.

• Recommendation of various methods of rectification.

• Making case study of projected saving by following our recommendations; and estimating potential investment &payback period.

Steps in Energy Auditing The energy audit may range from a simple walk through survey at one extreme to one that may span several phases: -

1) The first step is to identify the areas where energy is wasted and reduced energy without affecting the outputs of various functions.

2) The second step is to implement energy efficient appliances in place of normal appliances which reduce energy use by proper operations and maintenance. For this reason, it is necessary to reduce the number of operating machines and operating hours according to the demands of the load, and fully optimize equipment operations.

Energy audit depends on following factors: -

- Building equipment operation
- Lighting systems.
- Power systems.
- Building envelope
- Air-conditioning and ventilation equipment systems.
- Miscellaneous services.

ENERGY AUDIT REPORT

The first two steps can be can be implemented without changing buildings and existing appliances.

3) The third step would require investment for remodeling, rebuilding, or introducing further control upgrades to the building.

4) The fourth step is to carry out large-scale energy reducing measures when existing facilities have past their useful life, or require extensive repairs or replacement because of obsolescence. In this case higher energy savings may be achieved. For these last two stages, the audit may be more extensive in order to identify more ECOs for evaluation, but at an increased need for heavier capital expenditure to realize these opportunities.

ENERGY AUDIT REPORT

INTRODUCTION OF COLLEGE

Sr	Particulars	Details					
No.							
1	Name of the Institutes	Shri Swami Vivekanad Shikshan Sanstha Kolhapur					
		Sanchit, Padmabhushan Dr. Vasantraodada Patil					
		Mahavidyalaya, Tasgaon					
2	Address	Sangli- Tasgaon Road, Tasgaon					
		PIN CODE- 416312					
		Contact No.02346250665					
		San_pdvpm.tas@gmail.com					
3	Year of Establishment	June 1962					
4	Courses offered	a) Bachelor of Science					
		b) Bachelor of commerce					
		c) Bachelor of Arts					
		d) Masters in Science					
		e) Masters in commerce					
		f) Masters in Arts					
		g) Bachelor of Computer Application					
5	A (C'1' / '						
5	Affiliation	NAAC (B++ Grade ,2.76)					
		UGC-approved an recognized college affiliated by the					
		Shivaji University					

Energy Audit assement team	Designation
Prof.Mrs. D.S.Patil	Certified Energy Auditor
Dr. Milind Hujare	Principal
Dr. Alaka Inamdar	IQAC coordinator

ENERGY AUDIT REPORT

Facu	Faculty List:								
Sr. No.	NAME	Qualification	DESIG.	Subject					
1	Dr. Hujare Milind Shivajirao	M.Sc., Ph.D.	Principal	Zoology					
2	Dr. Pawar Vilas Yashwant	M.Sc., Ph.D.	Associate Professor	Statistics					
3	Patil Kisan Shivaji	M.A.	Associate Professor	Economics					
4	Mankar Rajaram Baburao	M.A., M.Phil	Associate Professor	Hindi					
5	Dr. Kulkarni Narendra Anant	M.Sc., Ph.D.	Professor	Botany					
6	Dr. Khade Shankar Kisanrao	M.Sc., Ph.D.	Associate Professor	Botany					
7	Dr. Khabade Suresh Anandrao	M.Sc., Ph.D.	Associate Professor	Zoology					
8	Mr. Patil Prabhakar Vinayak	M.Sc., M.Phil	Associate Professor	Mathematics					
9	Harale Balu Sidram	M.Sc., M.Phil.	Associate Professor	Physics					
10	Jadhav Vijaysinh Jagannath	M.A.	Associate Professor	Political Science					
11	Dr. Kanase Balasaheb Tukaram	M.A., Ph.D.	Associate Professor	Geography					
12	Khade Prakash Rangnath	M.A.	Assistant Professor	English					
13	Pachore Ajitkumar Shamgounda	M.A., M.Phil	Associate Professor	English					
14	Yadav Jalindar Anandrao	M.A., M.Phil	Associate Professor	Economics					
15	Dr. Patil Suresh Sopanrao	M.Sc., Ph.D.	Professor	Chemistry					
16	Dr. Ghodake Jeevan Shivaji	M.Sc., Ph.D.	Assistant Professor	Physics					
17	Patil Anil Ramchandra	M.A.	Assistant Professor	English					
18	Mote Ramesh Sopan	M.A., M.Phil	Assistant Professor	Hindi					
19	Dr. Inamdr Alaka Prakash	M.Sc., Ph.D.M. B. A.	Assistant Professor	Botany					
20	Dr. Patil Shahaji Jagannath	M.A., Ph.D.	Assistant Professor	Marathi					
21	Dr. Badame Tatoba Kallappa	M.A., Ph.D.	Assistant Professor	Marathi					
22	Dr. Kumbhar Arjun Shankar	M.Sc., Ph.D.	Assistant Professor	Chemistry					
23	Dr. Jadhav Swati Devkumar	M.Sc., Ph.D.	Assistant	Chemistry					

-				
			Professor	
24	Dr. Ambhore Ajay Nivritti	M.Sc., Ph.D.	Assistant Professor	Chemistry
25	Patil Ajit Kalgonda	M. P. Ed.	Physical Director	Physical Education
26	Thorbole Dattatray Balaso	M.A., Ph.D.	Assistant Professor	English
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28	Ghogare Sainath Ramji	M.A., NET	Assistant Professor	Sociology
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30	Dr. Wagh Arjun Shivaji	M.A., Ph.D.	Assistant Professor	Geography
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33	Dr. Teli Parashuram Basappa	M.Sc., Ph.D.	Assistant Professor	Zoology
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36	Dr.Kuldip Narayan Patil	M.A., Ph.D.	Asst. Prof.	Economics
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38	Mr. Amit Mahadev Mali	M.A., NET	Asst. Prof.	Geography
39	Mr. Gorakhnath Rangrao Patil	M.A., SET	Asst. Prof.	Commerce
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41	Mr. Ranjeet Sarjerao kumbhar	M.A., NET	Asst. Prof.	History
42	Miss. Kirti Kiran Kolap	M.A.	Asst. Prof.	History
43	Miss. Vaishali Dashrath Chorage		Asst. Prof.	History
44	Miss. Vaishali Vinayak Patil	M.Sc.	Asst. Prof.	Chemistry
45	Mr. Shashikant Ashok Damate	M.Sc.	Asst. Prof.	Chemistry
46	Miss. Vaishali Vilasrao Patil	M.Sc., SET	Asst. Prof.	Chemistry
47	Miss. Ashwini Prabhakar Patil	M.Sc.	Asst. Prof.	Chemistry
48	Miss. Sujata Sadashiv Mali	M.Sc.	Asst. Prof.	Chemistry
49	Miss. Swati Dinkar Ghatage	M.Sc.	Asst. Prof.	Chemistry

50	Miss. Archana Sanjay Rajmane	M.Sc.	Asst. Prof.	Chemistry
51	Mr. Sagar Sampatrao Shinde	M.Sc.	Asst. Prof.	Physics
52	Miss. Mithila Chandrakant Sadakale	M.Sc.	Asst. Prof.	Physics
53	Miss. Arunaani Gopal Salunkhe	M.Sc.	Asst. Prof.	Physics
54	Mr. Gajanan Shivaji Pawar	M.Sc.	Asst. Prof.	Physics
55	Miss. Ankita Suresh Yadhav	M.Sc.	Asst. Prof.	Physics
56	Miss. Pratiksha Suresh Bhandare	M.Sc.	Asst. Prof.	Zoology
57	Miss. Kavita Bhimrao Kumbhar	M.Sc.	Asst. Prof.	Zoology
58	Miss. Chaitali Sanjay Gavali	M.Sc.	Asst. Prof.	Zoology
59	Miss. Poonam Pratap Patil	M.Sc.	Asst. Prof.	Zoology
60	Mr. Sachin Kenchappa Shelake	M.Sc.	Asst. Prof.	Zoology
61	Miss. Shailaja Kusurkar	M.Sc.	Asst. Prof.	Zoology
62	Mr. Uttam Sampat Mane	M.Sc.	Asst. Prof.	Statistics
63	Miss. Smita Shrirang Panari	M.Sc.	Asst. Prof.	Statistics
64	Miss. Priyanka Dinkar Jirage	M.Sc.	Asst. Prof.	Mathematics
65	Mr. Bandu Hanmant Tarange	M.Sc.	Asst. Prof.	Mathematics
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67	Dr. Kuldip Narayan Patil	M.A., Ph.D.	Asst. Prof.	Economics
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69	Mr. Gorakhnath Rangrao Patil	M.A., SET	Asst. Prof.	Commerce
70	Miss. Anita Tatyaso Patil	M.A.	Asst. Prof.	Hindi
71	Miss. Nivedita Shital Patil	M.A.	Asst. Prof.	English
72	Mr. Sagar Sampatrao Shinde	M.Sc.	Asst. Prof.	Physics
73	Mr. Gajanan Shivaji Pawar	M.Sc.	Asst. Prof.	Physics
74	Mr. Sachin Suresh Patil	M.Sc.	Asst. Prof.	Physics
75	Miss. Pushpa Ajit Kashid	M.Sc.	Asst. Prof.	Chemistry
76	Miss. Bhagyashri Balaso Patil	M.Sc.	Asst. Prof.	Mathematics
77	Miss. Smita Vishwas Jadhav	M.Sc.	Asst. Prof.	Zoology
78	Dr. Yogesh Suresh Andoji	M.Sc., Ph.D.	Asst. Prof.	Botany
79	Miss. Vaishali S. Patil	M.Sc.	Asst. Prof.	Chemistry
80	Mr. Uttam Sampat Mane	M.Sc.	Asst. Prof.	Statistics

81	Miss. Rutuja Lalaso Patil	M.Sc.	Asst. Prof.	Statistics
82	Miss. Shubhangi Shivaji Bhosale	M.Sc.	Asst. Prof.	Statistics
83	Miss. Smita Shrirang Panari	M.Sc.	Asst. Prof.	Statistics
84	Mr.Vijay Tukaram Kumbhar	M.C.A. (Science)	Asst. Prof.	Comp. Science
85	Miss. Nutan Vijay Kumbhar	M.C.A. (Science)	Asst. Prof.	Comp. Science
86	Miss. Supriya V. Sutar	M.C.A. (Science)	Asst. Prof.	Comp. Science
87	Miss. Shreyada Shrikant Patil	M.C.A. (Science)	Asst. Prof.	Comp. Science
88	Mr. Jitendra Hanmant lawand	M.C.A. (Science)	Asst. Prof.	Comp. Science
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93	Miss. Sujata Sadashiv mali	M.Sc.	Asst. Prof.	Chemistry
94	Miss. Swati Dinkar Ghatage	M.Sc.	Asst. Prof.	Chemistry
95	Miss. Archana Sanjay Rajamne	M.Sc.	Asst. Prof.	Chemistry
96	Miss. Supriya V. Sutar	M.C.A. (Commerce)	Asst. Prof.	B.C.A
97	Mr. Amol Ashok Wagh	M.C.A. (Commerce)	Asst. Prof.	B.C.A
98	Miss. Swati S. Patil	M.C.A. (Commerce)	Asst. Prof.	B.C.A
99	Miss. Shreyada S. Patil	M.Sc. (Comp. Science)	Asst. Prof.	B.C.A
100	Mr. Jitendra Hanmant Lawand	M.C.A. (Science)	Asst. Prof.	B.C.A
101	Mr. Uttam Sampat Mane	M.Sc.	Asst. Prof.	Statistics
102	Mr. Sachinkumar Kisan Shinde	M.Sc., NET	Asst. Prof.	Chemistry
103	Miss. Snehal Raghunath Mali	M.Sc.	Asst. Prof.	Chemistry
104	Mr. Ashutosh Arjun Jagdale	M.Sc., SET	Asst. Prof.	Chemistry
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107	Mr. Devendra Dagadu Patil	M.Sc.	Asst. Prof.	Statistics
108	Mr. Shital Shivaji Patil	M.Sc., SET	Asst. Prof.	Statistics
109	Dr. Dhanaji Sambhaji Jadhav	M.Sc., Ph.D.	Asst. Prof.	Statistics

110	Mr. Amit Mahadev Mali	M.A., NET	Asst. Prof.	Geography
111	Mr. Vishal Rangrao Patil	M.A., NET	Asst. Prof.	Geography

Total No. students: 3433 Total

Teaching staff: 114 Total

Non- Teaching staff: 38

Physical Structure

Total College campus Area	11 acre
Build up Area	40000 Sq.ft or 3716 Sq.m
Projected Area	16000 Sq.ft or 1486 Sq.m

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 11 ENERGY AUDIT REPORT

SCOPE OF WORK AND APPROACH

SCOPE:

Scope of work and methodology were as per the proposal. While undertaking data collection, field trials and their analysis, due care was always taken to avoid abnormal situations so as to generate normal/representative pattern of energy consumption at the facility.

Approach to Energy Audit:

We focused our attention on energy management and optimization of energy efficiency of the systems, sub systems and equipment. The key to such performance evaluation lies in the sound knowledge of performance of equipment and system as a whole. The objective of Energy Audit is to balance the total energy inputs with its use and to identify the energy conservation opportunities in the stream.

Energy Audit also gives focused attention to energy cost and cost involved in achieving higher performance with technical and financial analysis. The best alternative is selected on financial analysis basis.

ENERGY AUDIT REPORT

ENERGY AUDIT METHODOLOGY

Energy Audit Study is divided into following three steps

A] Historical Data Analysis

The historical data analysis involves establishment of energy consumption pattern to establish base line data on energy consumption and its variation with change in production volumes.

B] Actual measurement and data analysis

This step involves actual site measurement and field trials using various portable measurement instruments. It also involves input to output analysis to establish actual operating equipment efficiency and finding out losses in the system.

C] Identification and evaluation of Energy Conservation Opportunities

This step involves evaluation of energy conservation opportunities identified during the energy audit. It gives potential of energy saving and investment required to implement the proposed modifications with payback period. All recommendations for reducing losses in the system are backed with its cost benefit analysis.

4 Preliminary Survey

In this Preliminary survey, the auditor may need to know the building envelope and its energy consumption. The data of a building can be obtained from: -

- Building Architectural blueprints.
- Building Air-conditioning blueprints.
- Building Electrical lighting and power drawings.
- Electrical bills and operation logs for the year preceding the audit.
- Air-conditioning manuals and system data.
- ECOs for evaluation, but at an increased need for heavier capital expenditure to realize these opportunities.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 13 ENEDCY AUDIT DEPOD

Walk-Through: -

ENERGY AUDIT REPORT

The walk-through process can be start after familiarized with the building, if the building blueprints and other electrical appliance information available describes the building and its operation accurately. In the walk-through audit, the building envelope can be study by a walk around the building. In the model analysis, the building must be divided into zones for analysis. The building survey would include that the air-conditioning system is as indicated on plans. In the building envelope, the type and condition of the windows, effectiveness of window seals will be noted. In the building, typical lighting and power requirements, occupancy and space usage are also noted. This information regarding building could be compared against the recommendations in the relevant Codes of Practices. The survey of mechanical rooms and plant room can give system and plant data. Name plate information could be compared against those in the building's documents, and pumps and chillers room can be visit for estimating the load on the system.

Operator's Input The auditor may discuss with the building maintenance staff further on the operating schedules and seek clarification on any unusual pattern in the trend of the utility bills. Unusual patterns such as sudden increase or decrease in utility bills could be caused by changes in occupancy in the building, or change in use by existing tenants. It is not uncommon for tenants to expand their computing operations that may increase the energy use significantly

ENERGY AUDIT REPORT

A] HISTORICAL DATA ANALYSIS

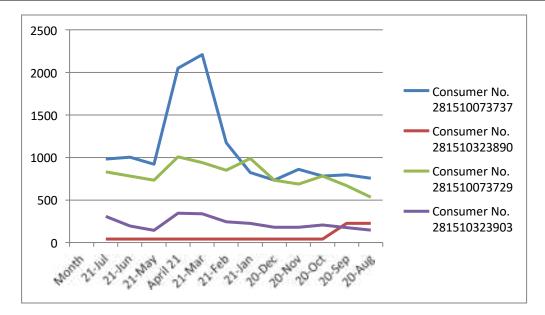
Record of monthly energy consumption of individual meter in Kwh (units) and repective Energy bill in Rupees is given below

		Cons	sumer N	o. 28151	0073737	Co	onsumer No	. 281510323890		
		Meter No 41103997870			Meter No. 04103997868					
Sr. No	Sr. No Month		Ener consu tio uni kW	rgy 1mp n ts	Bill	in Rs	con	Energy sumption its kWh	Bill in Rs	
	1 July 21		98	0	77	30		40	910	
	2 June 21		100)1	79	80		40	920	
	3 May 21		92	0	64	60		40	800	
	4 April 21		204	16	16	420		40	950	
	5 March 21		220			800		40	930	
	6 February 2	21	117	70	96	60		40	980	
	7 January 21	1	82	0	69	10		40	920	
	8 December	20	73		62			40	930	
	9 November		85			00		40	930	
	0 October 20		78		66			40	1500	
	1 September		79		21			225	3510	
1	2 August 20		75	5	64	00		225	3510	
			umer No. eter No. 09			28	onsum 815103		-	
C. No	M41-								Total Energy	Total
Sr. No	Month	const	nergy Imption or kWh	BIII	in Rs	Ener consum units or	ption	Bill in Rs	Total Energy consumption units or kWh	Bill in Rs
1	July 21		828	660	00	30:	5	3680	2153	12170
2	June 21		782	633	30	192	2	2520	2615	17750
3	May 21		730	533		142		1890	1832	14480
4	April 21	1	.006	828		344		4250	3436	29900
5	March 21		940	785		33'		4170	3525	30750
6	Feb 21		849	71:		242		3140	2301	20930
7	Jan 21		989	823		222		2900	2071	18960
8	Dec 20		730	620		173		2440	1680	15790
9	Nov 20		688	574		17		2370	1763	16240
10	Oct 20		780	659		203		3290	1805	17980
11	Sept 20		666 522		350	17		2970	1861	18930
12	August 20		532	46	50	14.	3	2630	1655	17190

ENERGY AUDIT REPORT

Month	Consumer No. 281510073737	Consumer No. 281510323890	Consumer No. 281510073729	Consumer No. 281510323903
July 21	980	40	828	305
June 21	1001	40	782	192
May 21	920	40	730	142
April 21	2046	40	1006	344
March 21	2208	40	940	337
Feb 21	1170	40	849	242
Jan 21	820	40	989	222
Dec 20	732	40	730	178
Nov 20	858	40	688	177
Oct 20	780	40	780	205
Sept 20	794	225	666	176
August 20	755	225	532	143

A] Energy Consumption in units or kWh

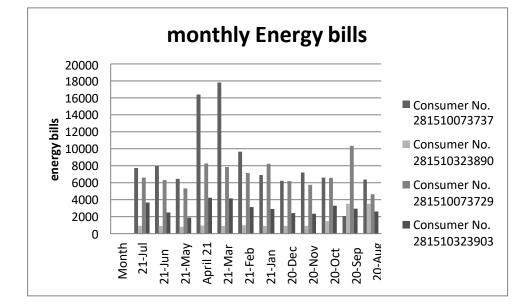


PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 16

ENERGY AUDIT REPORT

Month	Consumer No. 281510073737	Consumer No. 281510323890	Consumer No. 281510073729	Consumer No. 281510323903
July 21	7730	910	6600	3680
June 21	7980	920	6330	2520
May 21	6460	800	5330	1890
April 21	16420	950	8280	4250
March 21	17800	930	7850	4170
Feb 21	9660	980	7150	3140
Jan 21	6910	920	8230	2900
Dec 20	6220	930	6200	2440
Nov 20	7200	930	5740	2370
Oct 20	6600	1500	6590	3290
Sept 20	2100	3510	10350	2970
August 20	6400	3510	4650	2630

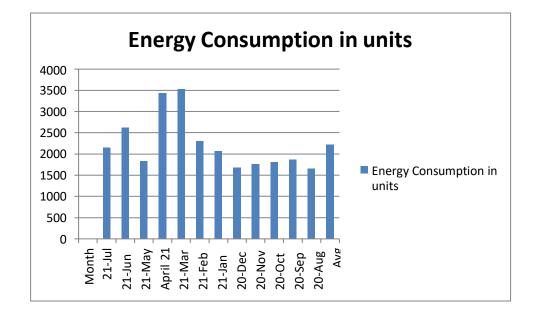
B] Energy Bills in Rupees



ENERGY AUDIT REPORT

Total Annual Energy Consumption in Units				
Energy Consumption in units				
July 21	2153			
June 21	2615			
May 21	1832			
April 21	3436			
March 21	3525			
Feb 21	2301			
Jan 21	2071			
Dec 20	1680			
Nov 20	1763			
Oct 20	1805			
Sept 20	1861			
August 20	1655			
Avg	2224.75			

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PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 18 ENERGY AUDIT REPORT

SOURCE OF ENERGY

Padmabhushan Dr. Vasantraodada Patil Mahavidyakaya, Tasgaon uses Energy in following forms:

A] Electricity from MSEDCL

Padmabhushan Dr. Vasantraodada Patil Mahavidyakaya, Tasgaon receives Electricity from MSEBE

B] High Speed Diesel (HSD)

HSD is used as a fuel for Diesel Generator which is run whenever power supply from

MSEDCL is not available.

The following are the major consumers of electricity in the facility

- Computers
- Lighting
- Air-Conditioning
- Fans
- Other Lab Equipment

C] Hybrid (Solar with wind miles) energy generation device

The hybrid energy generation devices contain a solar panel and wind turbine. The hybrid energy generation device has rated power 2 KW.

ENERGY AUDIT REPORT

SPECIFIC ENERGY CONSUMPTION (SEC)

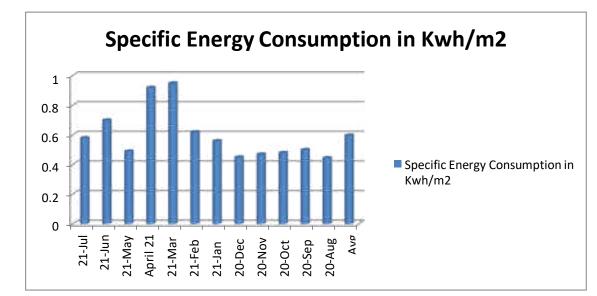
Specific Energy Consumption (SEC) is defined as energy usage per Square meter of area. it is calculated total electrical kWh/total area of the campus. By calculating SEC, we can crudely target the factors of energy efficiency or inefficiency. SEC for last twelve months was calculated and is as shown in the

chart below.

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Total College campus Area	11 acre
Build up Area	40000 Sq.ft or 3716 Sq.m
Projected Area	16000 Sq.ft or 1486 Sq.m
Specific Energy Consumption	0.6 Units/Sq.m

Month	Specific Energy Consumption in Kwh/m2	Energy Consumption in units
July 21	0.58	2153
June 21	0.70	2615
May 21	0.49	1832
April 21	0.92	3436
March 21	0.95	3525
Feb 21	0.62	2301
Jan 21	0.56	2071
Dec 20	0.45	1680
Nov 20	0.47	1763
Oct 20	0.48	1805
Sept 20	0.50	1861
August 20	0.445	1655



ENERGY AUDIT REPORT

B] STUDY OF ACTUAL MEASUREMENT AND ITS ANALYSIS

I) ACTUAL MEASUREMENT OF EXISITING EQUIPMENTS:

All required data is collected by Energy Audit Team. In this data, different classifications are done and made survey of the college. In this survey, in every room, how much fans, tubes, fans, computer, instrument AC, etc. will these is measured. According to survey following data is collected

<u>A] All Electricity consuming equipment and respective energy consumption in kW</u>

	Equipment	Quantity	Actual load in Watt	Total consumption in Watt
	Fan	2	78	156
Department	Tube light	2	40	80
of	computers	16	520	8320
Mathematic	printer	2	200	400
S	LED	1	10	10
	Fans	4	78	312
	Tube light	3	40	120
Department of	Air conditioners (1.5 Tonne)	1	5500	5500
Computer Science	LED	1	10	10
Science	computers	38	520	19760
	Printer	1	200	200
	Fans	9	78	702
_	Tube light	6	40	240
Department	LED	2	20	40
of Physics	computers	4	520	2080
	Printer	2	200	400
	LED Projector	1	200	200
	Fans	7	78	546
Department	tube light	3	40	120
of Botany	LED	1	10	10
	wall Fan	1	100	100

ENERGY AUDIT REPORT

	Refrigerator	1	180	180
	computers	1	520	520
	printer	1	200	200
	Fan	9	78	702
	Tube light	5	40	200
	LED	3	10	30
	wall Fan	1	100	100
Zoology	Projector	1	200	200
Department	Oven I	2	1000	2000
	Oven II	1	2000	2000
	outdoor light	2	40	80
	computers	2	520	1040
	Printer	1	200	200
	Fan	12	78	936
	Tube light	5	40	200
Statastics	LED	3	10	30
Department	wall Fan	3	100	300
Depui tinent	outdoor light LED	2	10	20
	computers	39	520	20280
	Air conditioners (2			
	Tonne)	1	7050	7050
	Fan	15	78	1170
	Tube light	15	40	600
	LED	6	10	60
	computers	12	520	6240
chemistry	wall Fan	1	100	100
Department	TV LED	1	100	100
	oven	2	1500	3000
	Refrigerator (253			
	units per year saving	1	180	180
	Air conditioners(1.5			
	Tonne)	1	5275	5275
Class rooms	Fans	1	78	78
(No.22)	Tube light	1	40	40
	Fan	18	78	1404
Library	18 tube light	1	18	18
Libiary	Tube light	20	40	800
	CFL (18W)	1	18	18

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 22 ENERGY AUDIT REPORT

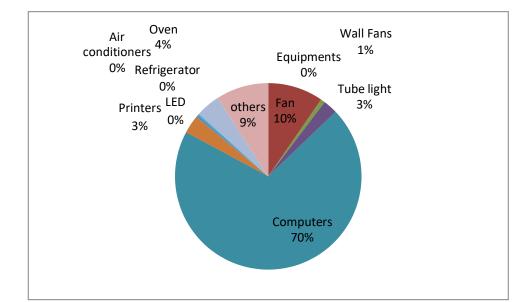
	outdoor light	2	40	80
	Printer	1	200	200
	computers	7	520	3640
Staff room	Fan	4	78	312
for Arts and	Tube light	4	40	160
Commerce	computers	1	520	520
	Fan	8	78	624
	Tube light	5	40	200
	LED	4	10	40
Office	wall Fan	1	100	100
	Xerox machine	1	500	500
	computers	7	200	1400
	Printer	6	200	1200
	Fan	5	78	390
	Tube light	1	40	40
	LED light	17	10	170
Principle	CFL (18W)	1	18	18
Office	Air conditioners	2	7050	14100
	LED TV	2	100	200
	computers	1	520	520
	Printer	1	200	200
	Fan	21	78	1638
	Tube light	15	40	600
Hostel	Bulb	8	15	120
1105001	LED	5	`10	50
	Motor	1	746	746
	Water purifier	1	100	100
Jimkhana	Fan	2	78	156
	Tube light	8	40	320
	street light	2	25	50
	bulb CFL (18 W)	1	18	18
	Total			121744

Total Energy Consumption: 121744 Watt or 121.744 kW

ENERGY AUDIT REPORT

Equipments	Quantity	Actual load in Watt	Total Load in Watt
Fan	117	78	9126
Wall Fans	7	100	700
Tube light	60	40	2400
Computers	128	520	66560
Printers	15	200	3000
LED	26	10	260
Air conditioners	2 (1.5 Tonne) + 3(2 Tonne)		26650
Refrigerator	2	180	360
Oven	2(1kW) + 1 (2kW)		4000
others			8688
Total			121744

B] Major electricity consuming equipment and respective total load



ENERGY AUDIT REPORT

II) RENEWABLE ENERGY SOURCE:

Hybrid (Solar with wind miles) energy generation system is available in college campus. The device has rated power 2KW.

Assuming total working hours -4 hours

Total kWh or units energy obtained from renewable source is 8 kWh

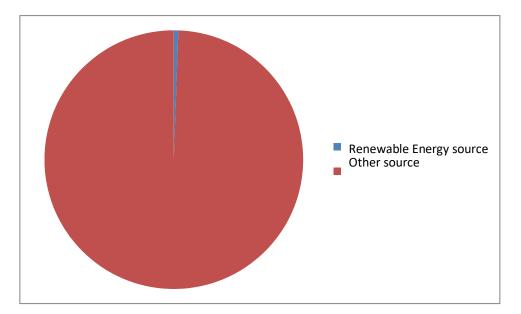
Equipment working on renewable energy

Sr. No	Equipment	Quantity	Actual consumption by equipment	Total Energy consumption in kWh or units
1.	Computer	1	520 W	520W x 4 = 2080Wh 2.08kWh
2.	Printer	1	200 W	200W x 4 = 800Wh 0.8 kWh
3.	Tube light	2	40 W	80W x 4 = 320Wh 0.32 kWh
4.	Fan	2	78 W	156W x 4 = 624Wh 0.624 kWh
	·	·	Total	5.736 kWh

Total daily energy consumption by Renewable Energy source = 3.824 kWh

Therefore monthly energy consumption by Renewable Energy source = 21.92 kWh

Monthly Average energy consumption by Electricity board = 2224.25 kWh



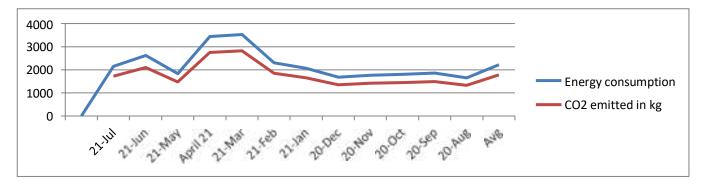
ENERGY AUDIT REPORT

III) CARBON- DIOXIDE EMISSION

For consumption of 1 Unit (1 kWh) of Electricity, the CO2 emitted is 0.8 Kg. OR the Emission is 0.8 Kg/kWh. In the following Table we present the total units consumed and CO2 emitted as under:

Sr.No	Month	Energy Consumption	CO ₂ emitted in kg
		(kWh)	
1	July 21	2153	1722.4
2	June 21	2615	2092
3	May 21	1832	1465.6
4	April 21	3436	2748.8
5	March 21	3525	2820
6	Feb 21	2301	1840.8
7	Jan 21	2071	1656.8
8	Dec 20	1680	1344
9	Nov 20	1763	1410.4
10	Oct 20	1805	1444
11	Sept 20	1861	1488.8
12	August 20	1655	1324
	Avg	2224.75	1779.8

Chart: Monthly CO₂ Variation



ENERGY AUDIT REPORT

IV) RERQUIREMENT OF NAAC

A) Alternative Energy Initiative

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Percentage of power requirement met by renewable energy sources

= (Power requirement met by renewable energy sources / Total

power requirement) X 100 We have,

Power requirement met by renewable energy sources -

21.92 kWh Monthly Average energy consumption by Electricity

board – 2224.75 kWh Total Power requirement: 21.92 +

2224.75 = 2246.67 kWh

Therefore,

= 0.97%

B) Percentage of lighting power requirement met through LED bulbs

Percentage of lighting power requirement met through LED bulbs

= (Lighting power requirement met through LED bulbs / Total lighting power requirement) X 100

= (260/650) X 100

= 40.06%

ENERGY AUDIT REPORT

C] IDENTIFICATION AND EVALUATION OF DATA

The electrical devices which are connected in college campus are not energy saving devices. These devices can be changed by electrical efficient appliances. The appliances are of high watt equipment so the electrical consumption is high in Tasgaon college campus. Now a day's low wattage appliances are used in building. They are helpful in saving electricity.

Table Energy Efficient Electrical Equipment

Sr.No	Equipment	Make	Rating	Specification	Cost INR
1	20 W LED Tube light	Wipro	18 W	LED	300*
\2	Fan (1200 mm)	Usha	50 W	BEE 4 star	1255*
3\\\\	Fan (700mm)	Usha	43 W	BEE 4 star	1135*
4\	Exhaust fan	Usha	50 W	BEE 4 star 486 m3/min	1650*
5	Tube light	Philips	36 W	Lumen	250*

*Price is based on market rates

- 1) Tubes and CFL are replaced by LEDs.
- 2) Replacing the CRT Monitors with LCD Monitors:
- 3) Replacing regular fans by BEE 4 star fans

ENERGY SAVING CALCULATION

1) Cost Analysis of LED light with Conventional tube light.

Total No. of conventional Tube Lights in Campus = 130

(from actual measurement data 2018-19)

Conventional Tube Light average power = 40 W.

LED average power = 10 W.

Difference in power saved per Tube Light = (40-10) W = 30 W.

% Saving After Replacement: 30W/40W x100 =75%

ENERGY AUDIT REPORT

From Actual Measurement Data from last energy audit 2018-19

Average Use of Tube Light per year =1935kWh Energy saved per year = 75%*1935 kWh = 1451.25 kWh. Per year saving = 1451.25 *8 = Rs. 11610 LED average cost = Rs. 300. Total LED used = 26 Total cost for replacing tubelight = Rs. 7800 <u>Current status:</u> Conventional light: 60 tubes instead of 131 quantity LED: 26 with cost of replacing Rs. 7800. <u>Recommendation:</u> Replace all 60 Tube lights by LED

2) Replacing the CRT Monitors with LCD Monitors:

In the college campus computers with CRT monitors are 128 numbers and the power consumption of CRT monitor is 520 W which is very large. The power consumption of LCD monitor is 250 Watts so the difference between CRT monitors and LCD monitor is large but the LCD monitor are costlier than CRT monitors. This saving of 270W per monitor is very large. LCD monitor cost analysis with CRT monitors.

Total no. of computers with CRT monitors is = 128.

Power saving per monitor = 270W.

% Saving after replacement = $270W/520W \times 100 = 52\%$

Average Use of computers per year (From Actual Measurement Data) =24573kWh

Annual Power saving = 24573kWh x52% = 12778kWh.

Annual Saving in Rs. per year = 12778*8 = Rs. 102224

Cost for replacing Monitor = Rs.4500.

Total Cost of Replacing all monitors = 128*4500 = Rs.576000

ENERGY AUDIT REPORT

Capital Cost Recovery time = (576000)/(102224) = 5.5 yrs. Hence, the payback period for replacing CRT monitors by LCD monitors is 5.5 years. Since the product life of LCD is much more than that, the move is economically beneficial.

3) Replacing regular fans by BEE 4 star fans

Total No. of conventional Fans in Campus = 117

Conventional Fan average power = 78 W.

/BEE 4 star rated fan average power = 50 W.

Difference in power saved per Tube Light = (78-50) W = 28 W.

% Total Power saving = $28W/78W \times 100 = 36\%$

Average Use of fans per year (From Actual Measurement Data) =3370kWh

Energy saved per year = $3370W \times 36\% = 1213 \text{ kWh}$.

Per year saving = 1213W * 8 = Rs.9704

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BEE 4 star rated fan average cost = Rs. 1255

Total Cost of Replacing all Conventional tube lights = 117*1255 = Rs. 146,835Payback time = (146,835/9704) = 15 yrs. Hence, the payback time for replacing all conventional fans of the campus with BEE 4 star rated fan is around 15 yrs year. *Payback period is more than average life of equipment so not recommended.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 30 ENERGY AUDIT REPORT

4) Providing Solar PV system for part load operations during day time

There are mainly Lighting and Computer loads. Since, there is no separate lighting feeder; it

becomes necessary to separate out the lighting feeder for those lights where they are used 6 to 8 hours in a day.

A 5 kW Solar PV is proposed for the Lighting load application with minimum Storage batteries.

The power saved considering the 85% loading = 5 kW

Average Daily available hours = 6 h/day

Electricity Saved = $6 \times 5 = 30$ kWh/day Yearly

availability = 300 days/year

Yearly savings in electricity = $300 \times 30 = 9000 \text{ kWh/year}$

Monitory Savings = 9000 x 8 = Rs. 72000 / year

Approximate cost of the solar system = Rs. 3.6 lac Payback

Period: 360000/72000 = 5 Yrs.

Average life of project: 25 Yrs.

Net Saving: 20 yrs x 72000/yrs.= 1440000/-

RECOMMENDATIONS

General Energy Audit Observations & Recommendations

Good daylight Design & Ventilation:

College has structure with broad door opening, high windows, rectangular building so that sunlight can reach all areas. Classrooms are provided with enough illumination from natural light. They are providing light colored fabric curtain or bind for window covering. Windows are in good operable condition. Structure has high ceiling, wide corridors. Exhaust fans are used where ever necessary.

It is advised to use double or triple glazing on windows/ Sun protecting film on windows.

All Class Rooms and labs to have Display Messages regarding optimum use of electrical appliances in the room like lights, fans, computers and projectors.

Indoor Air Quality:

As the building has open ventilation, there is no need for HVAC system

It is recommended to install smoke detectors from safety point of view. Indoor quality monitoring should be carried out periodically. College can arrange indoor Air Quality (IAQ) awareness programs.

Temperature and Acoustic Control:

College has been using daylight design as building is constructed in such a way that diffused sunlight allows light but not heat.

It is advised to use special walls for temperature control and noise barrier. Use Earth air tunnel which will cool in summer and heat in winter. Roof with reflective glass can be helpful for temperature control. Using of cool roofing material during new construction(mineral wool, rock wool, vermiculite, foams, expanded polystyrene etc). using water bodies like fountain, ponds are good for temperature control.

Energy efficiency and onsite energy generation Mechanism :

All projectors to be kept OFF or in idle mode if there will be no presentation slides. All computers to have power saving settings to turn off monitors and hard discs, say after 10 minutes/30 minutes. College has done regular maintenance of electrical system. There is display of signboards at appropriate places for energy conservation.

Commercial Recommendations

- Installation of solar PV panel system of capacity 5 kWh is highly recommended. Total saving through out the project life is Rs 14 ,40,000/-
- Replacement of CRT monitors with LED monitors will save Rs 1,02224/- per year and pay back period is 5 years its highly recommended as it will avoide digital eye strain on users.
- Replacement of remaining all conventional tube lights with LED will give savings upto 75%.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON 32 ENERGY AUDIT REPORT

CONCLUSION :

Natural resources on earth are limited and consuming very sharply. It can be saved by employing energy efficiency and it is very necessary to prevent depletion of natural resources. The Electrical audit of college buildings shows that the load of electrical equipment's is significant and should be taken some necessary step for reducing energy conservation. Today energy conservation plays a very important role for energy conserving because energy consumption is increasing day by day but the natural resources are not increasing and also generation is not match with consumption People should aware about energy conservation and reduce energy consumption by adopting modern technologies.

> Pref. Mrs. D.S. Patil (EA-31840) BE(Mech) MTech(Energy) Sereau of Energy Efficiency (BEE) Certified Energy Auditor and Auditager



Ref.No. : PDVPMT /

Date :

Criterion VII

Institutional Values and Best Practices

7.1.6

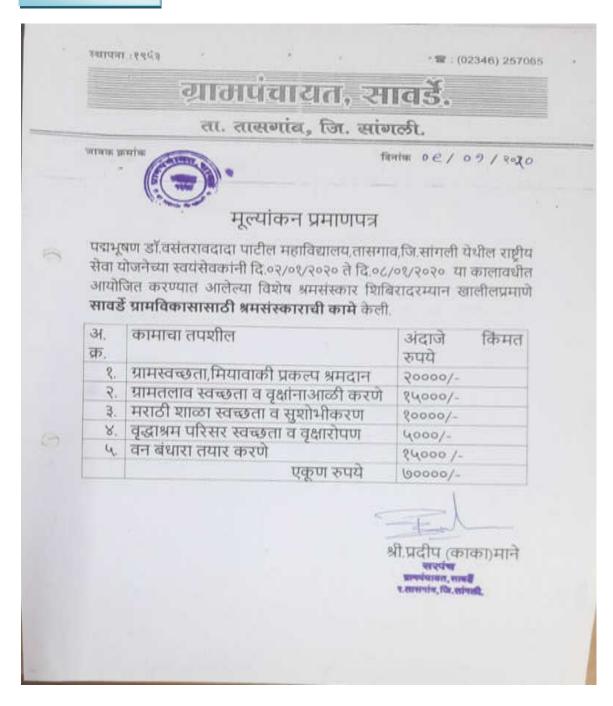
Quality audits on Environment

And Energy

Clean and Green Campus Recognition

Letters





NSS Camp for 10 days at Village Savarde: Appreciation Letter

ग्रामपंचायत कार्यालय तावदरवाडी(धनगाव)

ता.पलूस जि.सांगली

10 08/08/2000

मा.प्राचार्य, पद्मभूषण डॉ.वसंतदादा पाटील महाविद्यालय,तासगाव जि.सांगली

2. myore

प्रतिः

विषय:- महापूरग्रस्त तावदरवाडी(धनगाव) गावात अमदान केलेबाबत महोदय

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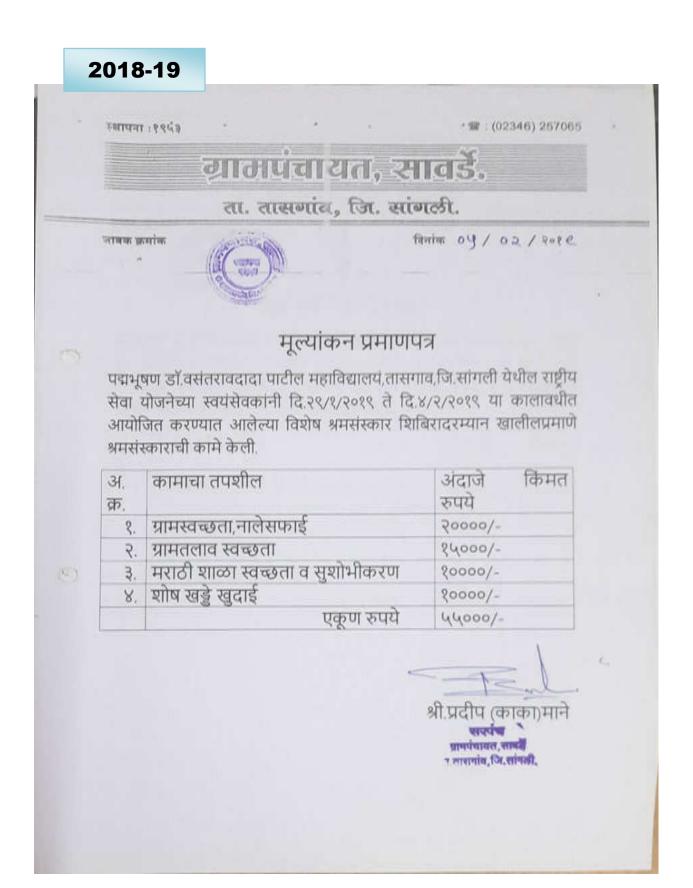
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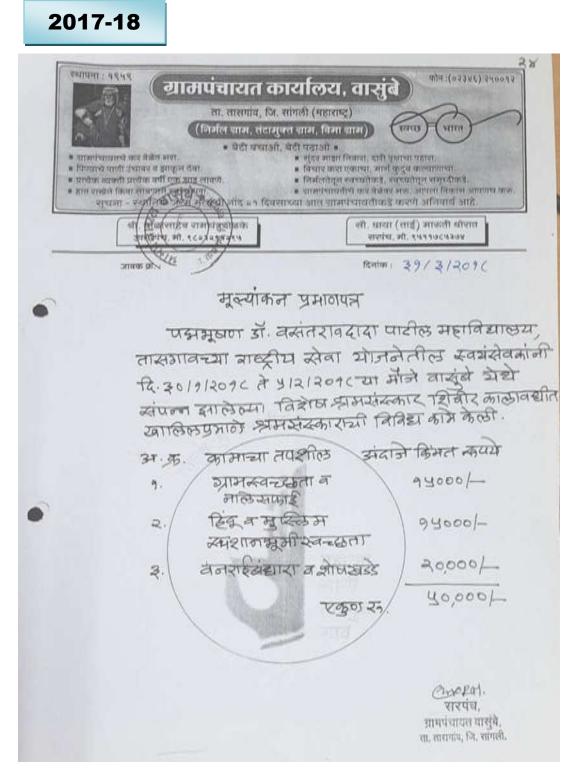
NSS Volunteers helped for the Cleanliness of Flood Affected areas at Tawadarwadi, Bhilawadi Villages: Appreciation Letter



Collector Office Sangli: Disaster management Department Sangli Appreciation Letter for Cleanliness of Flood Affected areas at Tawadarwadi, Bhilawadi Villages

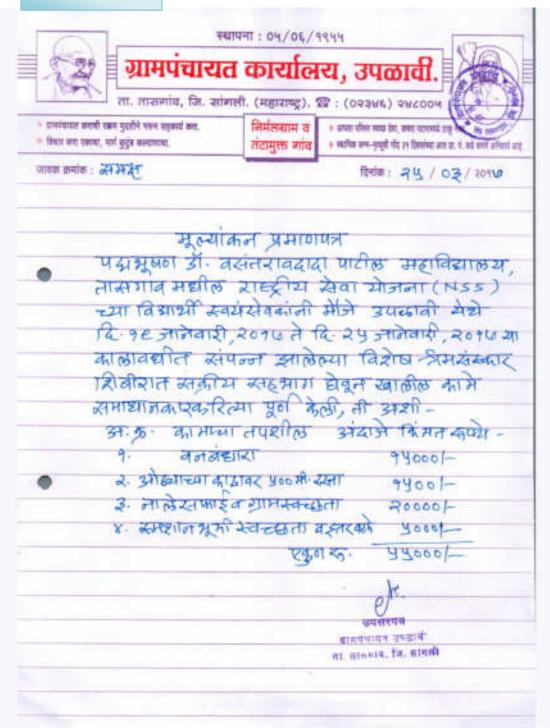


NSS Camp for 10 days at Village Savarde: Appreciation Letter



NSS Camp for 10 days at Village Vasumbe: Appreciation Letter

2016-17



NSS Camp for 10 days at Village Uplavi: Appreciation Letter



Ref.No. : PDVPMT /

Date :

Criterion VII

Institutional Values and Best

Practices

7.1.6

Quality audits on Environment

And Energy

Beyond The Campus Environmental Promotional Activities

Dissemination of Education for Knowledge, Science and Culture"- Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's **Padmabhushan Dr. Vasantraodada Patil** Mahavidyalaya, Tasgaon National Service Scheme(NSS)

AREPORT SUBMITTED TO Internal Quality Assurance Cell

Title of Program	Helping Hand to Flood Affected Persons in Sangli City and Bhilawadi
Organizing	National Service Scheme and Municipal
Department	Corporation Tasgaon
Collaboration with	Center for Disaster Management, Collector
	Office, Sangli
Student Participants	109
Male	68
Female	41
Faculty Participants	09
Male	09
Female	00
Total	118
Venue	Sangli City and Bhilawdi, Tal.Palus, Dist.
	Sangli.

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Department of National Service Scheme and Municipal Corporation, Tasgaon, collaborated to organize 'Helping Hand for Flood Affected Sangli and Bhilawdi'. In order to enhance awareness of the students, both have decided to take an initiative and work for ten days. The NSS volunteers of the institute participated along with NDRF, and conducted a rescue operation, on Wednesday, 6th August, 2019 to 16th August, 2019. Female Volunteers participated from 10.00 am to 05.30 pm daily and Male Volunteers contributed day and night service.

Chief Guidence: Dr.Abhijeet Chaudhari, District Collector,Sangli Guidence: Prin. (Dr.) Milind Hujare, Principal, PDVP Mahavidyalaya, Tasgaon.

Organizing Secretary and Members: Dr. T.K.Badame Dr. A.G.Sonawale NSS Programme Officers



NDRF and NSS Volunteers in a rescue operation in Sangli City



NDRF and NSS Volunteers in a Rescue operation in Sangli City, along with Mr. Suhel Sharma (IPS), SP, Sangli

It was in late July, when due to unusually high rainfall during monsoon, a severe flood affected Sangli and neighboring villages along the bank of the river Krishna. This flood caused huge destruction, impacting the lives, infrastructure and conditions of residents.

After the calamity, the institute's 'National Service Scheme', in Center for Disaster Management, Collector Office, Sangli organized a 'Cleanliness Programme' in the Sangli and Bhilwadi village.



NSS Volunteers in the Center for Disaster Management, Collector Office, Sangli



NSS Volunteers in the Center for Disaster Management, Collector Office, Sangli



NSS Volunteers along with flood Victims



NSS Volunteers packed mineral water bottles and then distributed to flood victims

There were 5 teams made out of these volunteers who visited the different areas around Sangli City and Bhilwadi village.



NSS Volunteers along with Dr. Abhijeet Chaudhari, District Collector, Sangli



Group Photo of NSS volunteers with Dr. Abhijeet Chaudhari, District Collector, Sangli after successful work done in flood campaign



Appreciations Letter Of District Collector, Center for Disaster Management, Collector Office, Sangli

Attendance

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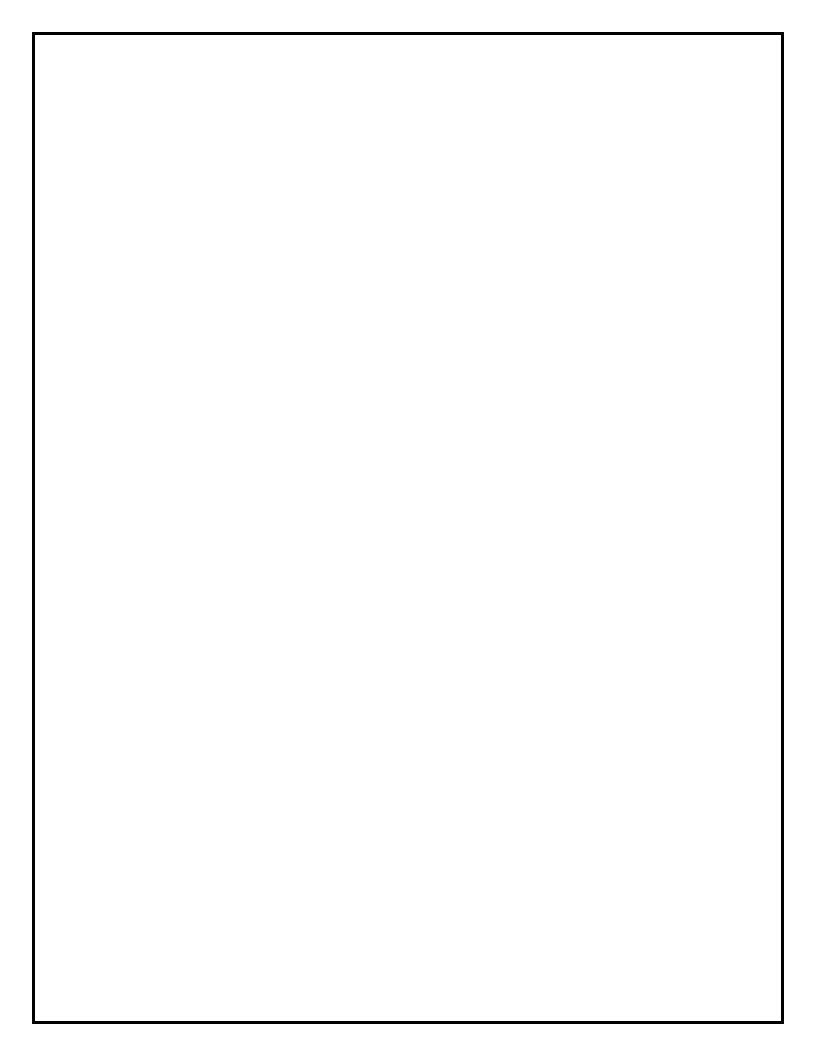
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Organizing Secretary

Dr. Tatoba K. Badame Progam Offessor National Service Scheme



Dissemination of Education for Knowledge, Science and Culture"- Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's **Padmabhushan Dr. Vasantraodada Patil** Mahavidyalaya, Tasgaon National Service Scheme(NSS)

AREPORT SUBMITTED TO Internal Quality Assurance Cell

Title of Program	After Flood Cleanliness Camp in Dhangaon (Tawdarwadi)
Organizing	National Service Scheme Collaboration with
Department	Gram Panchayat, Tawdarwadi (Dhangaon)
Student Participants	106
Male	56
Female	50
Faculty Participants	04
Male	03
Female	01
Total	110
Venue	Tawdarwadi (Dhangaon), Tal.Palus,Dist.Sangli.

Department of National Service Scheme and Gram Panchayat, Tawdarwadi (Dhangaon) have collaborated to organize 'After Flood Cleanliness Camp' in Dhangaon (Tawdarwadi) . In order to enhance awareness of the students, both have decided to organize a one-day 'Cleanliness Camp' for NSS Volunteers on Wednesday, 16thAugust, 2019 from 10.00 am to 04.30 pm.

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Chief Guest: Mrs. G. R. Salunkhe, Sarpanch, Gram Panchayat, Tawdarwadi (Dhangaon)

President:Prin. (Dr.) Milind Hujare,
Principal, PDVP Mahavidyalaya, Tasgaon.

Organizing Secretary and Members:

Dr. T.K.Badame NSS Po Dr. A.G.Sonvle NSS Po Dr.M.U.PatilMember Dr.H.D.Nadaf Member



NSS Volunteers Cleaned the roadside mud

It was in late July, when due to unusually high rainfall during monsoon, a severe flood affected Sangli and neighboring villages along the bank of the river Krishna. This flood caused huge destruction, impacting the lives, infrastructure and conditions of residents.

After the calamity, the institute's 'National Service Scheme', in collaboration with Gram Panchayat, Tawdarwadi (Dhangaon), organized a 'Cleanliness Programme' in the village.

The event started at 11:00 am and ended at around 05:30. NSS volunteers participated in this event. There were 4 teams made out of these volunteers, who visited and cleaned in different areas of the village.



NSS Volunteers cleaned roadside mud



NSS Volunteers Cleaned Gram Panchayat Office

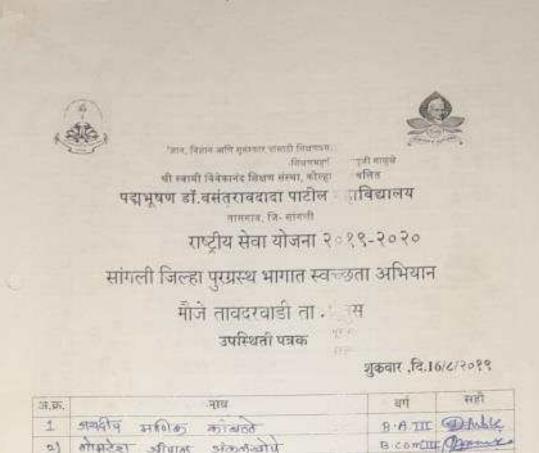


NSS Volunteers Cleaned the School Computer Room



Group Photo of NSS team of Institute and volunteers after cleaning campaign

Student Attendance



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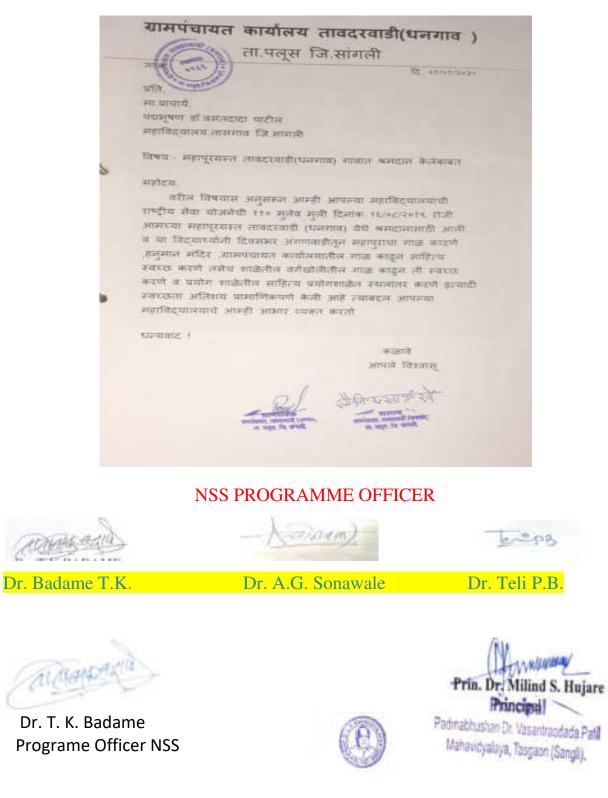
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Published News in Daily Tarun Bharat Dated 6th Sept. 2019

Appreciations Letter of Grampanchayat Tawdarwadi (Dhangaon)







"Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA TASGAON DIST- SANGLI 416 312 (Maharashtra) Phone No: (02346)250665

(Affiliated to Shivaji University, Kolhapur)





DEPARTMENT OF NATIONAL SERVICE SCHEME

REPORT ON

SPECIAL CAMP

SAVARDE TAL: TASGAON DIST: SANGLI

2019-2020

WATER MANAGEMENT

Event:	SPECIAL CAMP		
Organizing	NATIONAL SERVICE SCHEME,		
Department	Padmabhushan Dr. Vasantraodada Patil		
	Mahavidyalaya, Tasgaon.		
Date	02/01/2020 TO 08/01/2020		
Collaboration With :	Grampanchayat Savarde		
Total Participants	<mark>176</mark>		
Faculty	Male - 07 Female - 04		
Student	Male - 80 Female – 85		

Special Camping forms an integral part of National Service Scheme. It has special appeal to the youth as it provides unique opportunities to the students for group living, collective experience sharing and constant interaction with community. Special camp are organised generally on various developmental issues of national importance.

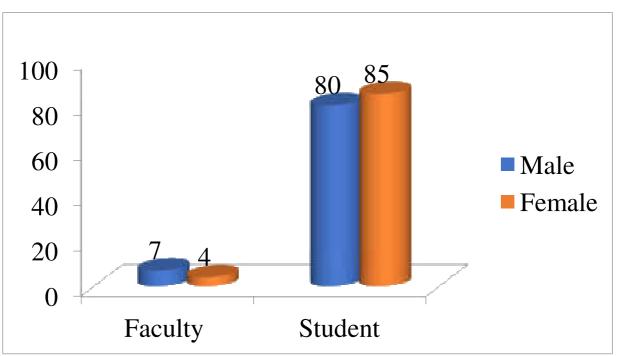
Water Management is a main theme of our special camp.

Objectives of the Special Camping programme

The primary objectives of the special camping programmes are:-

- 1. Making education more relevant to the present situation to meet the felt needs of the communities and supplement the education of university/college/school students by bringing them face to face with the community situation.
- 2. To provide opportunities to NSS Volunteers to play their due roles in the implementation of various development "programmes by planning and executing development projects, which not only help in creating durable community assets in rural areas and slums but also result in improvement of the condition of weaker sections of the communities.

- 3. Encouraging the students and non-students youth to work along with the adults in rural areas, thereby developing their character, social consciousness and commitment, discipline and healthy and helpful attitudes towards the community:
- 4. Building up potential youth leaders by exploring the latent potential among the campers, both students as well as local youth (rural and urban), with a view to involve them more intimately in development projects for longer periods. The local leadership generated during the camps would also be useful in ensuring proper maintenance of the assets created as a result of the camps.
- 5. Emphasizing the dignity of labour and self-help and the need for combining physical work with intellectual pursuits, and
- 6. Encouraging youth to participate enthusiastically in the process of national development, and promote national integration through democratic living and cooperative action.



Participants

CAMP NOTICE TO STUDENTS

राष्ट्रीय सेवा योजना विशेष अमसंस्कार निवासी शिबीर २०१९-२०

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सूचना

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INVITATION /CAMP SCHEDULE

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CAMP ACTIVITIES

- EXERCISE & YOGA
- PRABHATPHERI
- STREET PLAY
- FIELDWORK
- COMPETITION
- SOCIAL AND INTELLECTUAL LECTURES

राष्ट्रीय सेवा योजना

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EXERCISE & YOGA All Volunteers, PO and Yoga Guru

CAMP ACTIVITIES





Prabhatpheri is held daily in the camp. In this, announcements are made about sanitation, importance of water, social harmony etc.



STREET PLAY

Volunteers performed a street play against Tobacco, Gutkha, Cigarette, Mava etc.



FIELDWORK

The most important component of the NSS Special Camp is fieldwork. In this camp our volunteers gave the message of cleanliness to the society by cleaning themselves. The volunteers cleaned the public water pond in Savarde and build a road to walk around it. In order to fulfil the main objective of water management in this special camp, the volunteers created awareness among the villagers about the importance of water and sanitation. The volunteers also constructed the Vanrai Dam under water management them.















Water Pound





Care taken while filling drinking water









SOCIAL AND INTELLECTUAL LECTURES

As planned in the program schedule of special camp, the keynote speakers provided valuable guidance to the volunteers and villagers.



Dr. Badame T.K. Programme Officer introducing the program.



Mr. Pradip Mane Sarpanch Savarde







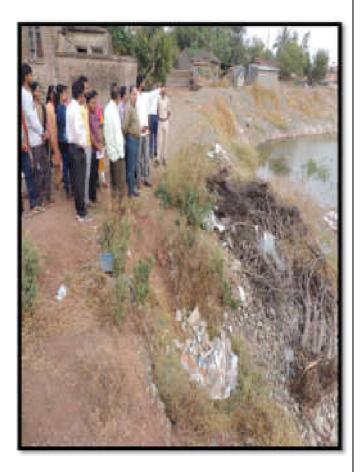
















Prize Distribution













Volunteers Contribution in Kitchen











Tracking















Volunteers



Team NSS



Volunteers Name List

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Dr. T.K.BADAME

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Thank you to the Hon. Principal Dr. Milind S. Hujare for his invaluable guidance in making this camp a success. Thank you to all the faculty members and students of the college. Lastly, thanks to all the villagers and office bearers of Gram Panchayat Savarde.



Student Representative

Mr. Ajinkya Mane

Miss. Harshali Jadhav

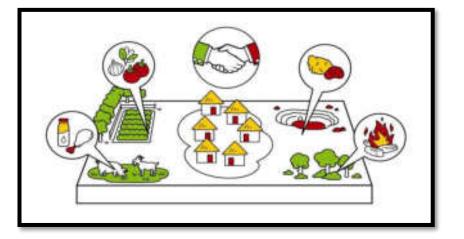




"Dissemination of Education through Knowledge, Science and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA TASGAON DIST- SANGLI 416 312 (Maharashtra) Phone No: (02346)250665

(Affiliated to Shivaji University, Kolhapur)





DEPARTMENT OF NATIONAL SERVICE SCHEME

SPECIAL CAMP

UPALAVI TAL: TASGAON DIST: SANGLI

2016-2017

SUSTAINABLE AND OVERALL RURAL DEVELOPMENT

Event:	SPECIAL CAMP								
Organizing	NATIONAL SERVICE SCHEME,								
Department	Padmabhushan Dr. Vasantraodada Patil								
	Mahavidyalaya, Tasgaon.								
Date	19/01/2017 TO 25/01/2017								
Collaboration With :	Grampanchayat Upalavi								
Total Participants	<mark>125</mark>								
Faculty	Male - 02 Female - 02								
Student	Male - 80 Female – 45								

Special Camping forms an integral part of National Service Scheme. It has special appeal to the youth as it provides unique opportunities to the students for group living, collective experience sharing and constant interaction with community. Special camp are organised generally on various developmental issues of national importance. Sustainable and overall Rural Development is a main theme of our special camp.

Objectives of the Special Camping programme

The primary objectives of the special camping programmes are:-

- 1. Making education more relevant to the present situation to meet the felt needs of the Communities and supplement the education of university/college/school students by the bringing them face to face with the community situation.
- 2. To provide opportunities to NSS Volunteers to play their due roles in the Implementation of various development "programmes by planning and executing Development projects, which not only help in creating durable community assets in rural areas and slums but also result in improvement of the condition of weaker sections of the communities.

- 3. Encouraging the students and non-students youth to work along with the adults in rural areas, thereby developing their character, social consciousness and commitment, discipline and healthy and helpful attitudes towards the community:
- 4. Building up potential youth leaders by exploring the latent potential among the campers, both students as well as local youth (rural and urban), with a view to involve them more intimately in development projects for longer periods. The local leadership generated during the camps would also be useful in ensuring proper maintenance of the assets created as a result of the camps.
- 5. Emphasizing the dignity of labour and self-help and the need for combining physical work with intellectual pursuits, and
- 6. Encouraging youth to participate enthusiastically in the process of national development, and promote national integration through democratic living and cooperative action.

NOTICE TO STUDENTS

NOTICE

Date: 05.01.2017

All NSS volunteers are informed that the **Special Camp** is being organized from **19th January, 2017 to 25th January 2017.** Volunteers who want to participate in this should register their names with the Program Officer by 16th January 2017.

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(Dr. Badame T.K.) Programe Officer

INVITATION /CAMP SCHEDULE



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CAMP ACTIVITIES

- EXERCISE & YOGA
- PRABHATPHERI
- FIELDWORK
- SUCTION PITS
- COMPETITIONS
- SOCIAL AND INTELLECTUAL LECTURES

राष्ट्रीय सेवा योजना

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CAMP ACTIVITIES EXERCISE & YOGA





RALLY

Prabhatpheri is held daily in the camp. In this, announcements are made about sanitation, importance of water, social harmony etc.



FIELDWORK

The most important component of the NSS Special Camp is fieldwork. In this camp our volunteers gave the message of cleanliness to the society by cleaning themselves. Our volunteers dug near about 70 suction pits in the Upalavi. In order to fulfil the main objective of sustainable and overall rural development in this special camp, the volunteers created awareness among the villagers about the importance of water and sanitation.













SOCIAL AND INTELLECTUAL LECTURES

As planned in the program schedule of special camp, the all speakers provided valuable guidance to the volunteers and villagers.



Hon. Principal Dr. R.R. Kumbhar



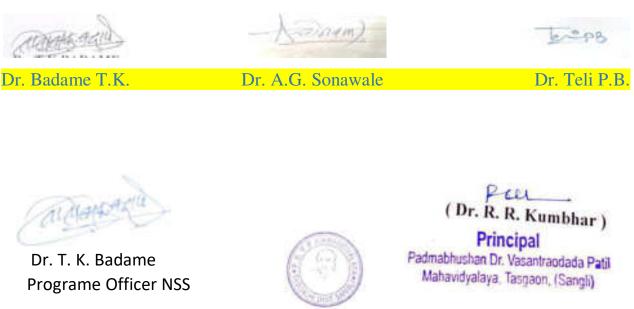
Dr. Badame T.K. Programme Officer





Thank you to the Hon. Principal Dr. R.R. Kumbhar for his invaluable guidance in making this camp a success. Thank you to all the faculty members and students of the college. Lastly, thanks to all the villagers and office bearers of Gram Panchayat Upalavi.

NSS PROGRAMME OFFICER



2016-17

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अ. क. निशार्थी तान वर्ग सूडी 21. April 31 Elizzaniais B.A.I S.Alokhande 22. Sundra - 23201 Stores B.A. I Aggaikund 23. (मंदिता राम-चंद्र क्रोंडे B.A. I Andiel. 24. Hyz High High B.A.I Mane 25. deoral labor uncher BAI upitel. 26) प्रसाद अरचिद पाहील छ न २ हिंदु माने अस्ता किसराव ह. म. म्ह्राज्यार 27 @ जाने अर्चना विनायक BA-I Aurane @ माने साच्छा इत्तान्नय B.A.I Admare 60 तेवक्तूने अञ्चली आहदे य B.A.I Barlak मयुवेरा संभामी जाइग्व 67 B.A.I B.A.I 33) माने सर्वजा रविंद्र MIPAPE 0 (REHL' B.A.I frog u. 84) डाश्वायकुप्ताट पविज्ञाय पातिला B.A. I 35) yeingan (312) and and BAJ Pip Julhav 36] पुलम प्रकाश जाहाल B.A.I P. P. Jedhoiv 37) स्मार्थली दिलीय स्मानटकके B.A.I Sontakke 38) पल्लनी जामदेव देवको 39) (नकीन। रविद्र जीरे BAT Porperkate BAI Rkhade 40) वैद्याली हिंद्रराव रठाखांबे B.A.I 4) पार्टील दिपाली जगन्नाय B·A·II V.H.Rankhambe 42 शहपूरे प्रियांषु - चंद्रशेलर 8.A.I + DRdi 49 कांबर्वे ओजाली भेगाणा R.B.I Pashahapune 4:4) मार्डी महेरा Remple BAI BAI 45) भोंकार महम्कर ममदाई Monall BAI

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निद्याच्याचे नाव वर्ग 31.页 सही भजय पारित 70. HILLIS 1 year SPORT 21. millar unart विमभ BAI HE21 72? BUD DATE B.A.F not 73 जाहाव २०पाली शावसाहेब B.A.II Radhav 74. मानसी निवास-पारील B.A.IL 75. आरनी जातिंद२ mahl-Fift 8.A.I Anane रवाती किंसराव 8. А. I वाहामारे 76 . Swati मंडले हितल भारत 777 अव्यादिल कार्वानेका थर्नेयत BA-J Boolale 787 B.A.I A.S. Rati 79] अरुकीकेश विषक हारकोड़ (30) -चव्हाण राविंद्र नाठीरा B.A. J Reitzas B.A.I कोमल विश्वासराव तामखेरे B.A.I Que (81 K.V. Tamkhade शजमाने अतुल अप्रोक 82 BA. I Rypune. हार्ज भनिता अमिल 3 85) B. A.I प्रियांका दिवल स्मातपुते G.A.ohaip B.A.I 83 P.D. Salparte पुषार कुमार सरगर B.A.I E निजव ञुझास 86) बाराडे B.A.I सीरम जिल्हाम बाबर 8.A.J Acres 87 २५भाम अलिल रेशक्ते B.A.T 88) Spal Lifea 89 व कार्या कार्द B.AI HONDIT = TO STA B TASOBE ISIND 90) माभित विनुल रमेश BAIT RRishine Qiz OD मोहिते माधवी पांधरेग 00 B.A.I Bachaul 6 जाग्व पवन् CITORIOT B.A.I Euch FORTRY 2 रणेश मंघ्राडी 102 B.A-I 8141

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अक्त निधार्थीन्ते मान ast सही पवार गायती राजेंद्र B.A.E 102) a. R. Repubr 021121निइट्रि) अभियेक द्विंद्र B.A.I 103) P 104) लामा पारील रुमुरज रनंजय B-A-I uicle Alan Haci B.A. I 105) Rollie Nell 106) चीत दार तुषार हिंधन TOP ALLED B.O.I 1017 आनुंखे मनोज बांसाजी B-A=== बालानी रमेश विभूने Der 108) B.A.J. 109> 210/21 स्ट्रयदेव तेली 110] जिल्लाम सीइंग्राम गाउम CHRY BAI G.S. Teli 11] को बले निवेदिना जंदकु मार B. AIT: S.D. Gadase B.AI 112) undar istand statical Orto BAT adi 113> २उरव २ उम्म त्रावाजी B.A.IF Romy 114) जाराव पावन काल्यकृष्ठ) BAI any 115) रमिला आमिर जहाज BA. I मोहिते श्रुमांजी अंमाजी 116] Bog 117) atisat B4.7 Bridioit stagsmit BA.I. 3.3. Monite 118) चारील आकाका S. N. Shendage अतिमाहा B.A.I 119) कोलार त्रहतुजा Aaley. किमन B-A.I Bhelon 120) पर्वसकर गाथ>11 विलास B.A.I Copelasdeoni 121) 402497 - Step1 2011 3rd B. A. I Raidseling 122) दार्ख तेज्ञ आ स्थात B.A.I T.S. Dhdle 123) मगद्म अज्ञय आहीक 124) Lagob ABEIH GIODIAN B.A.I BAI Populan 125] जार्मनी बार्टनर तुकाराम B.A.T Bakue 126) पा. डॉ. टी. के बदामे NSS PO \$A sound

One day workshop "Water Conservation and Sustainable Development"

Title of Programme	: Various Activities for Water Conservation and Sustainable Development
Organizing Department	: National Service Scheme, water
	conservation project at Savarde
Collaboration With	: Pani Foundation, Mumbai (Maharashtra)
Date	: 24 th January, 2019.
Venue	: Administration Building Room No. 6
No. of Participants	: 338, Male: 213, Female: 125

Water Conservation Programme is one of the very important programme, so the National Service Scheme department has decided to implement with a view to improve the lifestyle of the people in rural areas and thereby achieve the rural development. To develop agriculture from water resource development and to solve serious drinking water problem is the need of the time. Our department organized One Day Training Program on 'Water Conservation' collaboration with Pani Foundation, Mumbai, Tasgaon Unit.



Opening Ceremony

Our department invited to trainers and supported training staff of Pani Foundation. Organized the workshop totally free of cost for all participates and trainers.



President speech of Principal Dr. R.R.Kumbhar

Workshop introductory speech of Resource Person/Trainer

Principal Dr. R.R. Kumbhar welcome of Yogaguru Mr. Walmik Khairnar . Program Officer Dr. T. K. Badame gave introduction of chief guest and explained importance of yoga in daily life.



Practical work

Valedictory Function



Before Planning of Water Conservation

Figures of Total Water Collection



Picture shows that green area after implementation of water conservation program.



After the completion of training our volunteers went to adopted village Savarde and they doing field work for water conservation pregame on Pani Foundation.

Water Conservation field work participation







Group Photo after the completion of work

Chief of Pani Foundation Mr. Aamir Khan & Miss. Kiran Rao visited our adopted village Savarde. They observed the all water conservation project at Savarde and congratulate to all the volunteers and people of savrde. Savarde village got 1st prize at Taluka Level in 2019 'Water Cup

Competition'.

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Pani Foundation Registration Form





Speech of Mr. Aamir Khan & Kiran Rao

Villagers with Mr. Aamir Khan & Kiran Rao

(Dr. R. R. Kumbhar)

Principal Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli) 'Dissemination of Education through Knowledge, Science and Culture'-Shikshanmaharshi Dr. Bapuji Sakurkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON Dist.: Sangli.

NATIONAL SERVICE SCHEME (2018-19) Attendance report of

Water Conservation and Sustainable Developement

Date:24/01/2019

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	69	Female	Pisal sucha shankor		Firm
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93	£	Kore Aishwarya Bhagavan	8.sc.III.	Bore
94	Μ	Dr. Tatoba Kallappa Badame	NSS PO	and
95	F.	Mrs. Kirti, K. Kolup.	prof	L
96	M	Mr. Ghogene S.R.	Prot	GAF
97	M	Dr. Sonawale Bonol Gowaldm	NUS.M.	- Lechan)
98	14.	Dr Path Surrech S.	Prof.	Sali
99	٩.	Dr. H. D. HADNY	esert frog	Deci
100	m.	Ranjeet.S. Kumbhar.	Reapense	Populinganie
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संपूर्ण जाव 34. 15. ast न्तरी कु. अनव्येकर सोतल खरेश 1] BA - JE Jonat 2] 25गम शिवाजी दळवी B.A.-T 3spolan' किश्ग विक्वत्य होडके 3) BA-F HKA (1) lefe ओँगेर तुकाराम B.A -I Falt -झुती 3 छगन कोरके. B.A.I Clokenty 0 2102 21005 2) der B.A. I SRRohude Ð प्रथमेहा होहीकर्श सार्च B.A.L P.R. manz रोहिन विश्वनामा पारील 0 B.A.I R.N. PATIL 9 आादीय आस्कर साने B.A.I MAT (10) शाशिकांत अल्हाढ जाने B.A.T Fridme MANTE PARTA PARTA 0 B.A.I 5.5. Nolman Ø त्रतिराम न्युरेश न्यतारे B·A·II अहेतुजा अंजय शिवनवार B.A.I 0 जिल्हा काशीलाडा काहील B-A 2vanicat 14 E Pati आनिकेत शजाराम २५२विंगी BA.L (5) न्त्रीक रामचंद्र मंडले 6 8.A-I 02 क्रीमङ् । मुकूर मार्क्ष BA II आशिष खाळासास्त झांबळे 3 B.A.IL (19) 7/34 HELDER HSIN B.A. 11 Ð खबन नेर कीलापुरे BA-J Bikalapid

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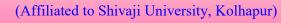




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DEPARTMENT OF NATIONAL SERVICE SCHEME

2020-21

11TH NOVEMBER 2020

REPORT ON

"CRACKER FREE DIWALI"

Diwali is the festival of lights that brings good luck, happiness and prosperity to all. The lighted diyas not only illuminate the environment but also has to shack the darkness of poverty and ignorance. But the important question is how far are we able to understand and appreciate the real fact that we are moving away from the real spirit of the fiesta of light? The festival steadily but definitely is becoming one of the major problem for the environment due to the carelessness of the people all around. Crackers contain toxic compounds like Copper and Cadmium and due to change in the weather these particles / pollution mixes with fog and becomes smog causing asthma attacks, bronchitis, symptoms of allergic rhinitis including running nose and headaches.

Smog worsens the situation by suspending the toxic particles in the air for longer time. It's high time that we people should recognize the problem and should build a roadway by which we can make a healthy and balanced environment.

Under the guidance of Hon. Principal Dr. Milind Hujare this year, our NSS department decided the diwali got some extra sweet with the landmark ruling by the Supreme Court, an initiative to keep the villages and city comes under Tasgaon taluka ever increasing pollution problem in control. So we organized cracker free diwali campaign from 11th November 2020 onwards.

Digital Banner



Permission Letter

Date: 08.11.2020

TO The Principal, P.D.V.P. Mahavidyalaya, Tasgaon.

Subject: To organize crackers free & eco-friendly Deepawali Campaign. Respected Sir,

As we are aware of adverse effect of crackers on human health and on environment our NSS department want to organize awareness campaign on bad effect of crackers on environment and human health. The campaign will be organized on 11th November 2020. NSS officers, Volunteers and students will participate in the campaign. Kindly grant the permission for the same.

(Jonne Vino Blino

Yours Faithfully,

(Dr. Badame T.K.) NSS Program Officer

NOTICE TO VOLUNTEERS AND STUDENTS

NOTICE

Date 10.11.2020

All the NSS volunteers and students of PDVP Mahavidyalaya are hereby informedto participate in "Crackers free and eco-friendly Deepawali Campaign", to be organized on 11/11/2020. At the backdrop of corona pandemic situations all are informed to follow all safety measures to avoid corona infections.

Dr. T.K. Badame

NSS Program Officers

VOLUNTEERS LIST PARTICIPATED INCAMPAIGN

Particulars	No. of Participants
Girls	24
Boys	25
Total	49

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VOLUNTEERS IN CAMPAIGN













Report

As Bursting crackers increase heat, carbondioxide and many toxic gases in atmousphere. Which causes rise in temperature of earth and polluted air leading to global warming noise polluction loud crackers sound affect human, birds and animals. There is a need for awareness of adverse effect of busting the crackers during Diwali festival. The crackers also cause respiratory problems in human. The awareness campaign was organized under guidance of Principal Dr. Milind Hujare and under leadership of program officer Dr. T.K. Badame. The NSS volunteers displyed posters of slogans of ill effects of crackers on environment at verious places of Tasgaon town. The campaign was organized mainly at crouded places such as market, busstand and main corners. 49 volunteers and students participated in the campaign.

NSS PROGRAMME OFFICER



Dr. Badame T.K.

- Kanam)

Dr. A.G. Sonawale

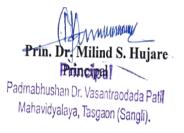


Dr. Teli P.B.

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Dr. T. K. Badame Programe Officer NSS









"Dissemination of Education through Knowledge, Science and Culture" -ShikshanmaharshiDr.BapujiSalunkhe Shri Swami VivekanandShikshanSanstha's Kolhapur

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA TASGAON DIST- SANGLI

416 312 (Maharashtra) Phone No: (02346)250665

(Affiliated to Shivaji University, Kolhapur)



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DEPARTMENT OF NATIONAL SERVICE SCHEME

REPORT ON

ECOFRIENDLY GANESH FESTIVAL

2020-2021

Event:	ECOFRIENDLY GANESH FESTIVAL
Organizing Department	NATIONAL SERVICE SCHEME, Padmabhushan Dr. VasantraadadaPatilMahayidyalaya, Tasgaan
Date	VasantraodadaPatilMahavidyalaya, Tasgaon. 10/09/2021
Total Participants Faculty	: 66 Male -16Female-04
Student	Male -32 Female-14







ATTENDANCE

पद्मभूषठा डॉ. वसंतरावदादा पारील महाविधालय तारागाव राक्टीय सेवा योजना (NSS) 2020-21 पयविरणपुरक ठालेशोत्सन उपक्रम ta 90/08/2029 उपाखीती पत्रक 3F. 5. 1931122/22/21 219 a) x161 1] Nisanan modukur Derkuit BA3 M 2) रोहित जरेंद्र होड़के B.A.3 BUD 3) Reater the site and B.A.3 seen is HI Rajendesa mhahaDer Dainalle BAIL Biogels 5] Shreyash Mukund Mali. B.A.III AS Sanket Sanjay Mone B.A III Sulls 6] 7) Bolage Onlos Rasiv B.A. III Come 8] Pranew Subumar Koli B.A. III Breen. 3) Vishal Damodar Gulig B.A - III Julig 107 Ahemael Javed Mulla B.A. III @mullo 11) Musaveer Maheboob Manor B.A. III Jonus 123 Mandele Sandy meidhukan B. A. 725 findy 13] Kamble Sorry a Somant Suryakagt B.A. ILI Support HI KAMBLE PRACIKRAJ SURENDRA B.A. III PLAN 15) Anuse Rupesh Ramhari B.A III AMA 15) BHasale suraj Dilip BA.TIT Spull 17) Chavan Swarti Ambadas BATT Swall 18) Jadhav rigmaats chardrakant BATD Melico 19) HOMMUKHE Ashwini Baly abhanle BAT 20) salunkhe Anuja Gopinath B.A TIT Realistell 21) Patil Monika subhakar B.A III MSPatil

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NEWS

REPORT

This festive season, ensure that you have a completely eco-friendly Ganesh Chaturthi by going zero-plastic! Ganesh Chaturthi is one of the Indian festivals that is rooted in community and celebration, but that can mean that it can be amongst the largest pollutants for our environment if we don't celebrate mindfully. Ganesh immersion leads to a large amount of pollution in our water bodies and all the waste generated from the decoration also increases the amount of plastic in landfills and water bodies. Thankfully, across the country, people are recognising the importance of eco-friendly Ganesh idols and an eco-friendly celebration, so here are some reasons for why you should consider a zero-plastic and sustainable Ganesh Chaturthi too!

Eco-friendly Ganesh Festival program was successfully implemented under the guidance of Hon. PrincipalDr.Milind S. Hujare. All the program officers Dr.Badame T.K., Dr. Sonawale A.G.and Dr.Teli P.B. and members of the National Service Scheme were present.

NSS PROGRAMME OFFICER

Dr. Badame T.K

Dr. A.G. Sonawale

mingm,

Dr. Teli P.B

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Dr. T. K. Badame Programe Officer NSS



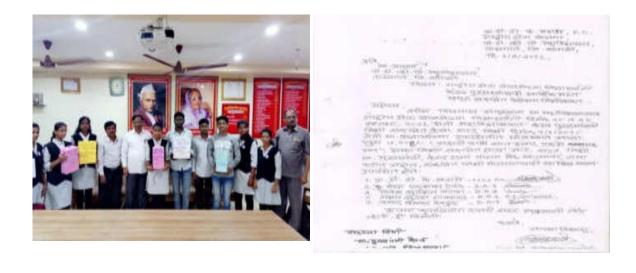
Prin. Dr. ind S. Hujare Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon (Sangli).

Flood Helping Hands

Title of Programme	: Flood Helping Hands (Kerala State)
Organizing Department	: National Service Scheme
Lecturer & Guidance Date	: Mr. Walmik Khairnar (Yogaguru, Art of Living, Tasgaon) : 21 st June, 2018.
Venue	: College Apex
No. of Participants	: 263

On 8 August 2019, due to heavy rainfall in the Monsoon season, severe flood affected the southern Indian State of Kerala. As a security measure in the prevailing situation of heavy rains, the Government of Kerala had issued Red alert in the 9 districts in Northern and Central Kerala, orange alert in 3 districts of Central Kerala, and yellow alert in the 2 districts of southern Kerala. Thousands of people have been evacuated to safer places and relief camps. A total of 101 people have died due to rain-related incidents since 14 August 2019, these camps now host more than 2 lakh people from various parts of the state.

That's why our department decided collecting funds for flood affected Kerala state. When our volunteers collected the funds from the college students and they responded very freely and frankly.



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Receipt of Rs- 7109/- funds transferred to Chief Minister Kerala Flood Relief Fund "Dissemination of Education through Knowledge, Science and Culture"-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

PADMABHUSHAN Dr. VASANTRAODADA PATIL MAHAVIDYALAYA,

TASGAON Dist.: Sangli.

NATIONAL SERVICE SCHEME (2018-19)

Attendance report of

Flood Helping Hands on June 2018

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