GREEN AUDIT REPORT

{2013-14}



Bharati Vidyapeeth's
Dr Patangrao Kadam
Mahavidyalaya
Sangli

WASTE DISPOSAL MANAGEMENT-

Audit Observation

- The college controls to reduce the absolute amount of waste that is produced from staff office by using paper on both sides and recycling it.
- The college has compost, or cause to be composted, all organic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and
- The college has used reusable resources and containers and avoided unnecessary packaging where possible.
- The college strives to promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives.

Control objective

Decreasing the amount of waste generated.

ENERGY MANAGEMENT-

Audit Observation

- Misuse of electricity is controlled by turning off the appliances when not required.
- The college does not have any choice of renewable and carbon-neutral electricity options on any energy-purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.
- Ensures that all electronic and electrical equipment's, such as computers, are switched off when not in use, and is generally configured in power saving mode when such option is available.
- There are no equipments running on standby mode.

Control objective

Reduce energy consumption, especially of energy derived from fossil fuels.

TREE PLANTATION MANAGEMENT-

Audit Observation

- Lack of internal greenery into the premises which needs to be improvised and increased.
- Need of native landscaping and increasing diversity in tree plantations.

Control objective

Use of sustainable and environmentally friendly methods for plantations.

TRANSPORT MANAGEMENT-

Audit Observation

- No college vehicle.
- College promotes the use of sustainable transport among the students and faculty members.

Control objective

Minimize the unsustainable transport.

WATER MANAGEMENT-

Audit Observation

- all the departments have Water filter with RO (Aqua guard) and large water filter with cooler at the strategic locations in the college for the students. All are with AMC.
- College does not use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage as stored water is provided by local municipality.

Control objective

Minimize consumption of water.

GREEN MANAGEMENT-

Control objective

Ensure that environmental awareness is created.

Audit Observation

- Seminars and awareness program needs to be conducted on Nature and natural resources, wildlife for the conservation of Biodiversity.
- Use of fertilizers and pesticides is minimum in the college.

College Declaration

I agree with all the recommendations and observations mentioned in this Gender Audit Report for the period of 2013-14. All the information provided for this audit is true and correct.

> (Dr. D.G. Kanase) Principal, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya Sangli,

CERTIFIED BY;

purpal Investigator Ar. Pramod Chaugule

Dr Patangrao Kadam Mahayidyalaya Sangli

2014-15

WASTE DISPOSAL MANAGEMENT-

Audit Supervision

- Controls to reduce the absolute amount of waste that is produced from staff office is done which is recycled and reused.
- Compost, or cause to be composted, all organic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and rooms is followed by college.
- Use of reusable resources and containers where possible is done.
- Promotion of reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives is done on seldom basis.
- The college have made use of all recycling facilities provided by City Municipality and private suppliers, including glass, cans, white, colored and brown paper, plastic bottles, batteries, print cartridges, cardboard and furniture.
- Recycled resources are not readily available in the market so purchase of recycled resources is seldom done.

Measures to be controlled-

- Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse.
- Purchase recycled resources where these are both suitable and available.
- Promote reuse of items and waste recycling through training, posters and incentives.

ENERGY MANAGEMENT-

Audit Supervision

- The appliances when not required are turned off and thus the misuse of electricity is controlled.
- All electronic and electrical equipment's, such as computers, are switched off when not in use, and is generally configured in power saving mode when such option is available.
- The college does not have any choice of renewable and carbon-neutral electricity options on any energy-purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.
- Energy is consumed more as there are no equipment's running on standby mode.
- College do not conduct switch off drills at regular intervals.

Measures to be controlled-

- Lessening the energy usage, especially of energy derived from fossil fuels.
- Ensure that improvements, purchases and developments are environmentally sound.

TREE PLANTATION MANAGEMENT-

Audit Supervision

- Improvisation in the internal greenery into the premises.
- Native landscaping should be preferred and increasing the variety in tree plantations.
- Attention for protection against soil erosion, sedimentation, fire, pests and diseases should be given periodically.
- Minimum use of harmful chemicals should be done.
- Need for conducting harvesting procedures.

Measures to be controlled-

- Adoption of sustainable and environmentally friendly methods for plantations.
- Maintenance and improvement of plantations.
- Protection of natural habitats.

TRANSPORT MANAGEMENT-

Audit Supervision

- No college vehicle.
- College promotes car sharing / car pool among the students and faculty members.
- Creating parking land spaces for carpool vehicles, bicycle is done.
- Use of public transport services, bicycle and pedestrian routes is promoted.

Measures to be controlled-

- Minimize the unsustainable transport.
- Promotion of green public transport than private transport.

WATER MANAGEMENT-

Audit Supervision

- All the departments have Water filter with RO (Aqua guard) and large water filter with cooler at the strategic locations in the college for the students. All are with AMC.
- Regular checking and maintenance of pipelines are done to control water wastage.
- College strives to use an efficient and hygienic water storage mechanism to minimize the loss of water during storage as stored water is provided by local municipality.
- Proper installation of appliances which reduces water consumption is needed.
- College makes all possible efforts to encourage the decrease in water usage among staff, students and conference guests.

Measures to be controlled-

- Minimize consumption of water.
- Encourage a decrease in water usage among staff, students and conference guests.
- Installation of appliances which reduce water consumption.

GREEN MANAGEMENT-

Audit Supervision

- Require that every staff and student member recognizes their responsibility to ensure that the commitments in the Environmental Policy are properly put into practice.
- Seminars and awareness programmes needs to be conducted periodically on Nature and natural resources, wildlife for the conservation of Biodiversity.
- Green audit is conducted annually.
- Fertilizers and pesticides are used in a very small amount in the college.
- The practice of burning plastic materials and other materials that emit harmful gas on burning is prevented in the campus.
- The chemical waste generated from the laboratories needs to be disposed in a scientific manner.
- Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site wherever possible.

Measures to be controlled-

- Ensure that environmental awareness is created.
- Minimize the use of chemical pollutants.
- Ensure that the Environmental Policy is enacted, enforced and reviewed.

College Declaration

I agree with all the recommendations and observations mentioned in this Gender Audit Report for the period of 2014-15. All the information provided for this audit is true and correct.

(Dr. D.G. Kanase)
Principal,
Bharati Vidyapeeth's
Dr.Patangrao Kadam Mahavidyalaya
Sangli.

Principal Investigator Ar. Pramod Chaugule

CERTIFIED BY;

Bharati Vidyapeeth's Dr Patangrao Kadam Mahavidyalaya Sangli

GREEN AUDIT REPORT

2015-16

WASTE DISPOSAL MANAGEMENT-

Audit Commendation

- Measures have been taken to reduce the absolute amount of waste that is produced from staff office is progressive.
- Composting all organic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and classrooms is properly followed by college.
- College needs to prepare and implement a waste handling and disposal procedure with clear identification for different type of wastes. Disposal area for different types of waste needs to be earmarked.
- The collection of waste is done from the campus, on as and when required basis and the solid waste disposed through by recognized technologies like vermicomposting, decomposition etc.
- Use of reusable resources and containers where possible is done.
- Promotion of reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives is done.
- The college uses all recycling facilities provided by City Municipality and private suppliers, including glass, cans, white, colored and brown paper, plastic bottles, batteries, print cartridges, cardboard and furniture.
- Recycled resources are not readily available in the market but purchases of recycled resources is done.

Controlling areas-

- · Quantity of recycled waste should be maximized & minimize the quantity of nonrecyclable refuse.
- Purchase recycled resources where these are both suitable and available.
- Provide sufficient, accessible and well-publicized collection points for recyclable waste. with responsibility for recycling clearly allocated.
- Maximizing the reuse of items and waste recycling through training, posters and incentives.
- More Awareness programs amongst the students and other stakeholders needs to be organized for proper solid waste disposal.
- The college may introduce waste collection bins with different color code for biodegradable and non-biodegradable waste for source segregation with adequate signage.

ENERGY MANAGEMENT-

Audit Commendation

- High energy consuming Incandescent lights and fluorescent lights are found in use. The college may plan for long term phase out plan of the same with less energy consuming LED or CFL lights.
- Maximum numbers of electrical fans are found of older generation and non energy efficient. The college may develop a phase out plan of the same by replacing with new energy efficient fans.
- The college does not have any choice of renewable and carbon-neutral electricity options on any energy-purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.
- Assessment of electrical load calculation is not yet done by the college.
- Turning off of the appliances is done when not required and thus the misuse of electricity is controlled.
- All electronic and electrical equipment's, such as computers, are switched off when not in use, and is generally configured in power saving mode when such option is available.
- Consumption of energy is more as there are no equipment's running on standby mode.
- Switch off drills at regular intervals is not conducted by the college.
- The communication process for awareness in relation to energy conservation needs to improve.

Controlling areas-

- Decreasing the amount of energy usage, especially of energy derived from fossil fuels.
- Need to explore usage of renewable energy sources.
- Need to explore automation or time control mechanism.
- Ensure that improvements, purchases and developments are environmentally sound.

TREE PLANTATION MANAGEMENT-

Audit Commendation

- Internal greenery is quite improvised into the premises.
- Increasing the variety in tree plantations and more native landscaping should be
- Protection against soil erosion, sedimentation, fire, pests and diseases is done regularly.

2015-16 [GREEN AUDIT REPORT]

- Implementation of integrated pest management program to reduce use of harmful chemicals is required.
- Proper storage and disposal of tree waste in different segregation bins is done.
- Minimum use of harmful chemicals is done.
- Harvesting procedures is conducted frequently.

Controlling areas-

- Adoption of sustainable and environmentally friendly methods for plantations.
- Proper maintenance and improvement of plantations.
- Natural habitat protection and open fields, marshes and wooded areas.
- Purchasing goods that has minimal impact on the environment.
- To ensure effective soil and water conservation.

TRANSPORT MANAGEMENT-

Audit Commendation

- College vehicle is not available for transport.
- College promotes car sharing / car pool among the students and faculty members.
- Reduction in the proportion of travel on College business carried out in private transport and eliminate unnecessary and inefficient use of college vehicles.
- College gives available information about bicycle and pedestrian routes, public transport services and car share schemes to staff and students.
- Parking land spaces for carpool vehicles, bicycles is maintained.
- Utilization of public transport services, bicycle and pedestrian routes is done.

Controlling areas-

- Adoption of sustainable transport.
- Adoption of methods to reduce air pollution and noise intensity levels.
- Controlling transport emissions of green house gases, acidifying gases, organic compounds.
- · Promotion of green public transport than private transport,
- Encouraging the usage of sustainable transportation technology.

WATER MANAGEMENT-

Audit Commendation

- All the departments have Water filter with RO (Aqua guard) and large water filter with cooler at the strategic locations in the college for the students. All are with AMC.
- Rain water harvesting is implemented and the water is used in the Chemistry Department laboratory to carry out practicals.
- Regular checking and maintenance of pipelines are done to control water wastage.
- Minimize wastage of water and use of electricity during water filtration process, if used, such as RO filtration process and ensure that the equipment's used for such usage, are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity.
- Proper installation of appliances which reduces water consumption is needed.
- College promotes the decrease in water usage among staff, students and conference

Controlling areas-

- Consumption of water needs to be minimized.
- Installation of appliances which reduce water consumption.
- · Purchase of the most efficient washing machines and dishwashers available, which have an economy setting as default.
- Encourage a decrease in water usage among staff, students and conference guests.

GREEN MANAGEMENT-

Audit Commendation

- m Require that every staff and student member recognizes their responsibility to ensure that the commitments in the Environmental Policy are properly put into practice.
- Use of pesticides is avoided wherever possible.
- Seminars and awareness programs are seldom conducted on Nature and natural resources, wildlife for the conservation of Biodiversity.
- Green audit is conducted annually.
- Fertilizers and pesticides are used in a very small amount in the college.
- The practice of burning plastic materials and other materials that emit harmful gas on burning is prevented in the campus.

2015-16 [GREEN AUDIT REPORT]

- The chemical waste generated from the laboratories needs to be disposed in a scientific manner.
- Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site wherever possible.
- Use of private vehicles should be minimized.
- Manage and improve environmental performance (managing negative impacts) and help to increase resource efficiency (e.g. cutting waste and energy use).
- Plantation, conservation and maintenance of trees should be done regularly.
- Conservation of materials and energy should be done.
- Pollution should be prevented and resources should be conserved.
- Awareness of environmental issues and responsibilities should be created.
- Promotion of the information regarding the nature, natural resources, wildlife for the conservation of biodiversity should be conducted.

Controlling areas-

- Ensure that environmental awareness is created.
- Use of cleaning products and chemical pollutants should be minimized.
- Verify that the Environmental Policy is enacted, enforced and reviewed.
- Encouraging the use of environmentally friendly materials.
- Minimizing the ozone depleting substances.
- Ensure that the buildings conform to green standards.
- Implementation of a green cleaning program using non-toxic products.

College Declaration

I agree with all the recommendations and observations mentioned in this Green Audit Report for the period of 2015-16. All the information provided for this audit is true and correct.

> (Dr. D.G. Kanase) Principal,
> Bharati Vidyapeeth's
> Dr.Patangrao Kadam Mahavidyalaya
> Sangli.

CERTIFIED BY:

Principal Investigator Ar. Pramod Chaugule

GREEN AUDIT REPORT

(2016-17)

Bharati Vidyapeeth

Dr. Patangrao Kadam Mahavidyalaya

Sangli



Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

ACKNOWLEDGEMENT

We are grateful to the committee members of Dr. Patangrao Kadam Mahavidyalaya, Sangli to award this prestigious project and allow us to step into the new phase of Green Audit in the College Campus.

Further we sincerely thank the college staff for providing us necessary facilities and co-operation during the audit. This helped us in making the audit, a success.

Further we hope, this will boost the new generation to take care of Environment and propagate these views for many generations to come.

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Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

1. Introduction

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit.

1.1 About the College

Bharati Vidyapeeth Dr. Patangrao Kadam Mahavidyalaya, Sangli Maharashtra is established in the year 1985 as Public Educational Institute to provide higher education to build career in the field of Humanities, Science and Commerce. The college is having affiliation with reputed NAAC-B with four main courses - Bachelor of Arts [B.A] ,Bachelor of Commerce [B.Com] , Bachelor of Science [B.Sc], Master of Science [M.Sc] (Analytical Chemistry). There are separate laboratory buildings of Microbiology, Physics, Chemistry, Botany, Zoology, Political Science, Statistics/Mathematics, Computer Science, Information Technology and Advanced Soft Skill and also have Auditorium with a capacity of 500 audiences and well equipped gym.

The college has also adopted the 'Green Campus' system for environmental conservation and sustainability. There are main three pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO2 emission, energy and water use, while creating an atmosphere where students can learn and be healthy. The college administration works on the several facets of 'Green Campus' including Water Management, Tree Plantation Management, Waste Disposal Management, Tree Plantation Management, Green Management and Mapping of Biodiversity.

2. Objectives of the Study

The main objective of the Green Audit is 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 students aware of 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
- To bring out a status report on environmental compliance

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

3. Assessment Methodology-

In order to collect factual data the assessment team has interacted with concerned management personnel and visited different areas of the institution namely common class rooms, utility area, auditorium, gymkhana, office, staff rooms, library, electric room (meter room), water storage underground and overhead, toilets, kitchen and canteen, waste storage areas, drainage system, landscape ground, green house and parking. To ensure comprehensive coverage the assessment has been categorized into six broad modules to facilitate a structured evaluation. The modules are as follows:-

Waste management	Tree plantation management
Energy Conservation	Transport management
Water management	Green and biodiversity management

The assessment observations are supported by few photographs which have been captured during the visit.

Dr. Patangrao Kadam Mahavidyalaya expresses its commitment to sustainability in many ways. It has taken a number of positive steps to reduce its environmental impact. There are always areas in which improvements can be made. This report serves to highlight Dr. Patangrao Kadam Mahavidyalaya's many accomplishments and to make recommendations for improving the college's environmental sustainability. The college strives to maintain eco friendly atmosphere on the campus. To maintain eco-friendly ambience various programs are followed on campus.

■ Observations on Solid Waste Management-

- All the floors contain environment friendly bins for both general waste and mixed recyclables (plastic bottles, card, cans and paper) which thereby segregates waste materials.
- College has implemented a 'reducing waste' awareness scheme, which includes; re-using single-sided waste paper as notepads / notelets, creating a separate tray in the printer for single-sided used waste paper, when printing drafts and encouraging the use of overhead projectors at internal meetings instead of printouts. Photocopiers are set to duplex printing.
- Cardboard boxes are reused where possible or else segregated for recycling.
- Disposable plastic or paper cups are not provided with the tea and coffee machines and staff uses mugs.
- College is counseling and encouraging students to think more carefully about the wastes they're producing.

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

- Utilization of environmentally sustainable materials is done effectively.
- The organization has introduced waste collection bins with different color codes for biodegradable and non - biodegradable wastes for source segregation with adequate signage which is therefore used efficiently for composting of biodegradable materials.
- Promotion of the Plastic Awareness program to reduce use of plastics on campus, at home, in communities, is being done by putting up signage and boards.

· Recommendations

- More awareness programs amongst students and other stakeholders (faculty, other staffs, service providers etc.) needs to be organized for minimizing solid waste disposal.
- Proper storage and safer disposal of waste, efficient and proper waste treatment, effective
 waste conservation and increasing resource recovery from waste should be done
 adequately.

Hazardous Waste

 Handling of reprography machine master film disposal containing ink residue needs to be suitably controlled to prevent land contamination.

■ Observations on Energy Management-

- Architectural design for the college is based upon use of natural lighting and ventilation, to save extra power for bulbs and fans.
- Florescent bulbs are replaced with CFL bulbs at some places.
- Utilization of natural light when possible and electricity is appropriately used (avoiding its misuse).
- College uses generator during shortage/cutoffs of light.
- The college has a canopy of trees and plants that make the environment carbon dioxide free and to maintain health of all the inmates.
- The garden has palm trees, eucalyptus trees and other trees, which provide shade and a beautiful ambience.
- Energy is also conserved by using natural light in the classrooms.
- Purchases and developments to minimize energy use.

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Green Audit Report 2016-17

Recommendations

- High energy consuming Incandescent lights and fluorescent lights and number of electrical fans of older generation non energy efficient may be replaced by less energy consuming LED or CFL lights and efficient fans.
- The organization is having considerable area in the roof top, a cost benefit analysis may be done for installation of solar panel to reduce carbon footprint.
- Adoption of a purchasing policy that specifies low or no VOCs.

· Observations on Tree Plantation Management-

- The organization takes initiative for plantation program by involving students to offset the GHG emission.
- College has a quite large amount of landscape area under plantation which includes a beautiful flowering garden at the entrance, which enhances the aesthetic façade look and warmly welcomes the public.
- Carbon dioxide neutrality is maintained on the campus by developing greenery.
- The internal greenery is well maintained by placing pots in the premises.
- Use of sustainable and environmentally friendly methods for plantations is adopted and the compost manure is provided for the plantations.
- Utilization of native landscaping and increasing diversity in tree plantations is done.
- There are some plantation of trees mainly fruits, which attract birds. Along with this some medicinal plants like Neem, Aloevera, Tulsi, Eucalyptus are planted.
- Harvesting procedures, preservation and protection against soil erosion, sedimentation, fire, pests and diseases are conducted frequently.
- Protection of natural habitats, open fields, marshes and wooded areas is ensured regularly.
- College implements 'Integrated Pest Management Program' to reduce use of harmful chemicals.
- Utilization of mulch landscaping waste (grass clippings, leaves, branches) is done to divert from the landfill.
- Maintenance and improvement of plantations and proper storage and disposal of tree waste is ensured.

Recommendations

 College can put some man-made nests to attract some birds and can put some ducks, swans and other birds which may help them to maintain the ecological balance and the reservoir zone.

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

It is necessary to increase the land under vegetation, since there is a lot of scope.

. Observations on Water Management

- A water purification system is installed on each floor in the building which provides cooled, purified water from the mains system.
- Some taps were checked during the audit and were found to be standard taps which can save about 80% of water and energy used for hand washing.
- Utilization of native plants that do not require additional irrigation.
- Washing waste water from canteen & kitchens is suitably controlled and used for watering of plants while the solid waste is used for composting.
- College has a beautiful rooftop of which a small area is used for collection of rain water. College has implemented Rain water harvesting and water is carried and utilized throughout the year in the Chemistry department (also other departments has access to use the rain water) on the ground floor which is efficiently and effectively used for carrying out the practicals in the laboratory.
- Identification & stoppage of leakages in pipelines is done regularly thus ensuring proper repairs and maintenance. Float valve operated auto shut off switch may be installed for pump sets used for overhead tank filling.

Recommendations

- Installation of water recycling mechanism, such as solid immobilized Bio Filters may be done.
- Consider carrying out meter readings on a regular basis (e.g. bi-monthly) in order to monitor water usage and set a baseline from which further reductions can be measured.
- Proper installation of appliances which reduce water consumption and installation of aerators / flow restrictors on faucets to reduce water consumption.

Observations on Transport Management

- College minimizes the unsustainable transport and promotes green public transport than private transport.
- Use of public transport services, bicycle and pedestrian routes is adopted and used by maximum students.
- Preferred parking land spaces for carpool vehicles, hybrid or electric vehicles and bicycles is provided for faculty and students.
- Adoption of methods to reduce air pollution and noise intensity levels is done by planting large amount of trees in the surrounding areas around the campus.

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

Recommendations

Encouraging the awareness and usage of sustainable transportation technology.

Observations on Green Management

- College minimizes the use of all cleaning products and chemical pollutants.
- Avoids the use of pesticides wherever possible.
- Limits the use of private vehicle wherever possible.
- College encourages the use of environmentally friendly materials.
- Promotes the information regarding the nature, natural resources, wildlife for the conservation of Biodiversity.
- Plantation, conservation and maintenance of trees and conservation of materials and energy is done.
- Preventing pollution and conserving resources and creating awareness of environmental issues and responsibilities.
- College is managing and improving environmental performance (managing negative impacts) and helping to increase resource efficiency (e.g. cutting waste and energy use).

Recommendations

- Implementation of a green cleaning program using non-toxic products.
- · College should strictly ban use of plastic products in the campus.
- Minimizing the ozone depleting substances.

Observations on Biodiversity Management

- College promotes greening in the built environment and create habitat for living organisms in the nature in order to enhance biodiversity.
- Examining and determining whether biodiversity enhancement is achieved at regular intervals is done.
- College is taking steps to increase the variety of substrate depths and vegetation types which tend to have higher spider, beetle, and bird diversity. Ensuring proper selection of the plant species for green roofs depends on which target species of vertebrates and invertebrates are expected to attract to the site of interest.
- Grasses and herbaceous plants produce numerous seed heads that provides invaluable energy sources for migratory birds.

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

Recommendations

- Facilitation of colonization by a more diverse flora and fauna. Adding bird boxes, bat boxes and trap nests for bees as desired can create a unique and rare habitats.
- Adding snags (tree limbs) and stones for terrain variation and moisture retention, adding depressions to collect rain water for short periods, producing niche spaces for organisms, creating "microhabitats".
- Implementing programs to promote awareness, training and proper maintenance of green building design and biodiversity.

BVKPM

Dr. Patangrao Kadam Mahavidyalaya, Sangli

Green Audit Report 2016-17

College Declaration

I agree with all the recommendations and observations mentioned in this Green Audit Report for the period of 2016-17. All the information provided for this audit is true and correct.

(Dr. D.G. Kanase)
Principal,
Bharati Vidyapeeth's
Dr. Patangrao Kadam Mahavidyalaya
Sangli.

CERTIFIED BY;

Principal Investigator Ar. Framod Chaugule