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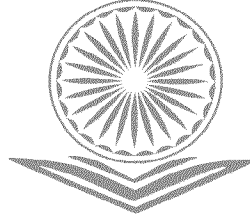
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22. Green Campus Best Practices of Kinhavali College Thane

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Abstract

Most people think about environmental problems and they want to do something to solve these problems. Organisations and Institutions are part of society and educational institutions are the creator of a good society. Educational institutions continuously work for reducing the environmental problems, they practice developing green campuses awareness about plastic, tree plantations water harvesting etc. Green campus means a place where work is going with the help of nature, minimum use of artificial resources these cost to the pollution and replace the environmental hazards resources with the eco-friendly or environmentally friendly resources. This paper also focuses on practices used and applied by the college to reduce the environmental problems for environmental sustainability. This paper used the observation method and gives some suggestions for better implementation of practices.

Key Words: Green, Green Campus, Environment Sustainability, Best practices.

Introduction

Some social organisations are taking an initiative to help in our earth-saving moment. They can participate at this moment by just changing their daily routines, just stopping using and abusing use public transport morally, and instructing all the companies to clean polluted water and then leaving it in the environment. Save our environment is most important because the **Intergovernmental Panel on Climate Change (IPCC)** had given a report that we have a 1.5°C rise in temperature all over the world. If it keeps on rising high, so in 10 to 15 years cities which are situated near the ocean will drown. The cause of the temperature rise, the iceberg will melt speedily and due to this, the water level of the sea will also rise then the ultimate humans have to face the problems such as high-tide, cyclone, heavy rain at any time etc. We should take initiative to reduce such problems. Recently our Prime Minister Mr. Narendra Modi has been to the conference on Climate Change and he had given assurance to the world that by 2070 India

will cut its carbon emission to the net zero. Maharashtra Government got an “**Inspiring Regional Leadership**” prize at Scotland in COP26 conference for taking good initiatives for “**Climate Partnership & Creative Climate Solution**”. Central and State government is trying to reduce the population in every way possible, central government has launched the schemes like “**Digital India**”, “**Swacha Bharat Abhiyan**” etc. The state government of Maharashtra has also launched the schemes like “**Jalyukta Shivar**” for Water Harvesting and Tree Plantation Programme “**Each Laksh Koti Vruksh**” etc. So many educational institutions had participated in all the government’s programmes to save the nature and environment.

NAAC also recommended in his seventh criteria, “Environmental Consciousness and Sustainability” in that they ask many types of questions to the institute & colleges like alternative energy initiatives, use of CFL or LED bulbs, waste management, rainwater harvesting management, green practices etc. Today many colleges run various ideas to protect the environment like implementing the use of eco-friendly products and resources.

Methodology

For this study researcher used the observation method. The researcher direct visited the college and observed the practices used and implemented by the college for environmental sustainability and get geo-tag photographs of practices.

Study Area

The research study was conducted at Arts, Commerce and Science College Kinhavali, tehsil shahapur, district. Thane is located in Maharashtra state (India).

Green Campus

A green campus means a place where you are going to work to help nature by using minimum artificial resources that cause pollution and by increasing the use of environment-friendly resources, and this all will help in educating others about environmental sustainability and eco-friendly practices on the campus. The green campus offers the opportunity to take the lead in rethinking its environmental culture and developing a new paradigm for solving problems that are local, national and global.

There is no such definition of a green campus but several are reviewed on that such as... according to (NEIWPC 2009) “Green Campus is a place where environmentally responsible practice and education go hand in hand and where environmentally responsible tenets are borne out by example”.

Best Practices

Best practice means activities in the organisation to the growth of Institution, motivation to the students and employees it helps to fulfil the objectives of the institution and for the beneficiary of the society, environment and nature. It's a regular practice done by any organisation that they are differently working rather than others or run some practices in another way. It is a standard way of doing things.

Kinhavali College

Vidya Prasarak Mandal Kinhavali, Thane, Maharashtra (India) was established in 1961 at that time our institution had only Higher Secondary School in kinhavali village. It is a very reputed organisation in Shahapur Taluka Thane District Maharashtra state. In four decades, the institution has grown slowly but steadily, in the present time of the 21st century, Institute has three High Schools, D.Ed. college, One Junior College. As a need of higher education institutions established senior college in 2004 with Arts, Commerce and Science faculty, also starts B.M.S., I.T. professional courses. The college has been recognized by the UGC 12B, and permanently affiliated to University of Mumbai and also has a NAAC accreditation with a "B" grade. As a social responsibility of the college, it has to run some of the best practices to protect and reduce some amount of pollution and by offering some contribution in solving this environmental problem and prolonging the green campus of kinhavali college as...

- 1. Tree Plantations on a College Campus** - In our college's campus, you will find various types of trees which are well grown and to take care of them, our college has built "Katta" around the trees for all the way people to seat in the shade of trees. College also inculcates awareness about the tree plantation in the students through the NSS unit, every year college participates in tree plantation programme of government. If you have ever been to our college, you will find 8 to 10 Big trees are taking care of nature by standing firmly throughout their time, fruit like Mango and Papaya trees are also available. Indoor plants also kept in different places of college campus; campus will have fresh air whenever anybody breaths.
- 2. CFL Bulbs and Tubes in College** - As another initiative our college has taken some measures like changing traditional use of the electric system, we started using CFL bulbs & tubes to save the electricity so, in the end, it will help our college in reducing the electricity bills. Our college classrooms have advocate windows so all the students

can have fresh air and beam of light while studying. We have also stuck the “**switch off fan & lights when not required**” stickers below the switchboard all over the college so student also can provide their contribution in our save electricity moment.

3. **Automation of Library and Office Work** - As a today's need and saving the natural resources and nature, our college implements the atomization process in the office and college library. Most of the work of office and Library is done by the software, therefore we save the time of students and the stationary. Less amount of paper gets to use in practice. By decreasing the paper use we indirectly save the trees from cutting.
4. **Recycle the Old Newspaper and Old Answer Sheets** - Our examination department and Library collect their old useless answer sheets and newspapers and sell them to the “**Kabadi**” with a promissory note that he won't sale it to the others, and he/she will directly sale these papers to the recycling factory. Since we practice this our college must have saved some trees from cutting.
5. **Dispose of Dry Waste in Compost Pit** - Cleaning is the first activity of the day, so when our college sweeper collects all dry waste from all departments and then comes collecting the tree's leaves and other materials which are scattered around and put into the compost pit for the degradation and after decomposition, it used in Botanical Garden, greenery area of the college campus. Doing this activity, we decomposed and convert the waste into fertilizer & in this way we always keep our campus green and air pollution free. Our college thinks by proposing every activity whether it is small or big will help in saving our earth.
6. **Rainwater Harvesting** - Kinhavali village is nearby the Malshej Ghat and the range of Sahyadri Hills. Due to this, in the monsoon sea, we have to face rainfall fall in our region but most of the time rainwater gets wasted and in the summer season, kinhavali and nearby area faces the problem of water shortage. For recharging the groundwater level, we installed the “**Rainwater Harvesting Plant**” on our college campus. With the help of this whenever it rains, we save water in the plant and then with the pipeline drain it into percolating tank of the college. By practising this technique, the groundwater level surrounding off college area has risen and now the collaterals adequate water from the borewell for very few times we face the problem of water shortage.

7. **Solar Panel** - An alternative electricity source, our college has established by putting a 15-kilowatt solar panel on the rooftop. It was a demand of time, due to lack of coal we are facing the problem of shutting down the coal electricity generation plants. Some of the percentages of air pol there are because of coal electricity plants most of the contributors have shut their coal plants and have started using alternative resources to generate electricity without harming nature. College gives the generated electricity to MSEB and MSEB minus the units used by the college. With this type of electricity transaction, our college has zero electricity bills, this is our college one more step towards saving the nature.
8. **Uses of Rainwater by the Science Department** - The science department of our college collects the rainwater directly and stores it in drums and uses this water as distilled water for the science practical due to this activity chemistry department does not use a distillation unit i.e., an ordinary method to prepare distilled water. a very few times use the steam machine to create a distilled water for this practice as a result science department not only save the electricity energy but also help to reduce the electronic bills of quality and teach a lesson too Science students that use a natural resource as possible as to save the environment.
9. **Use Permanent Crockeries** - Disposable plates, cups and glasses are also one the sources in creating pollution in the environment. Therefore, our college has started using permanent crockery for the water, tea, coffee and breakfast so clean it properly and reuse them. College also has given instructions to the canteen that they shouldn't use disposable plates, glass, or cups. Use metal glass, cups and plates so we can reuse them by cleaning them properly and neatly canteen committee had given surprise visit to the canteen and they make sure is canteen people are following the provided instruction or not as per the decided the y committee. It cultivates the good habits among the students for saving the environment.
10. **Reuse of paper as a best practice** - Office and other staff of college try to use lesser amount of paper, for the official and other work. In our staff members, we Circulate the short notices and information with the help of social media apps. With this practice, our expenditure on stationery and wastage of papers has reduced. Ultimately, by using this

we could have helped nature by the medium of saving trees, so as a result nature and the environment also get saved.

11. **Campus Garden** - Around the college compound wall, we develop a garden and have planted various types of plants and decorative trees we even grow grass too. We use those flowers as gratitude and love for our college when we get any other visitors or guests. Using the flower tree branches for planting a new tree. Presenting a flower rope to the visitor and guest. The botany department has created a **“Medicinal plant Garden”** on a college campus to create awareness of these medicinal plants, by this activity our college has started looking green with this greenery. We also saved expenditure that was spent on buckeye and other gifts.
12. **E-Waste Management** - E-waste generated in the campus is very less in quantity. Administration conducts the awareness programmes regarding E-waste Management with the Help of various departments. The major source of E-waste is computer equipment's i.e., printers, CPU and that defective item from computer laboratory is being stored properly. The institution has policy to avoid maximum E-waste through awareness in case some waste generated then it will disposal facility in order to dispose E-waste in scientific manner.
13. **Use of Public Transport** - Most of the air pollution created from the vehicles and consuming the fossil fuel, now a days fuel production and their purchase is a major problem. Our college 75% staff use the public transport or private jeep transport for traveling some of students and staff reach the college by walking and near about 80% students use the public transport for reach the college. It helps to the environment for saving the fuel and reduce the air pollution in kinhavali and nearby area.

Suggestions

1. Require regular maintenance of Solar panels and water harvesting system.
2. Make an eco-friendly rule and display it on the campus for the pollution-free area.
3. Go through the green audit of the college.
4. Need Regular maintains of Medicinal Plants.
5. Chemical waste plant should be maintained and recreate for the disposal of waste chemical.
6. Replace the CFL bulbs with LED bulbs.

7. Electronic devices must be checked and reuse again and again before it declares as e-waste
8. Plant more and more flower plants it helps Honeybees to collect the Honey and made their honeycombs on the surrounding of the college.
9. Rainwater Harvesting plant should be checked and drop point should be increases.
10. To Calculate the Carbone Generating in College Campus.
11. On In the college campus pest the green campus slogans.

Conclusion

As an educational institute, our organisation will always support the college by proposing activities which will be helpful for students, staff and the environment. Our organisation will always instruct for urging our government schemes like **“Swachh Bharat Abhiyan”**, **“Tree Plantation camps”** etc. Our college will provide a positive response and will try to work on the Institution’s instruction. Every year our College’s NSS unit build river bund on nearby rivers of the kinhavali area and store that water for the summer season that water is also used by a nearby farmer for farming. Our college has always kept in mind that to save nature and life by proposing some of the above activities for a green campus saving the natural resources minimise the use of Heaven products for the nature. College campus most of the time looks nice greenery all over the campus various types of birds are coming on it all the staff of college Dum dare work to keep the vision of college and environment of the area.

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