

# Santal Bidroha Sardha Satabarshiki Mahavidyalaya

ESTD-2005



**Government Aided, NAAC Accredited College**

Affiliated to Vidyasagar University & Recognized by UGC (under 2(f) & 12(B)

P.O: Goaltore, Dist: Paschim Medinipur, PIN-721128

Phone & Fax: 03227-288063, Email: [sbssm\\_goaltore@rediffmail.com](mailto:sbssm_goaltore@rediffmail.com), Website: [www.sbssmahavidyalaya.ac.in](http://www.sbssmahavidyalaya.ac.in)

## BEST PRACTICES



### Best Practice-I

**Title of the Practice:** Eco-friendly Clean and Green Campus Initiative

#### Objectives of the Practice:

- To save the human being from the effect of environmental pollution.
- Eco-campus by conservation of plant and green landscaping.
- Planting and maintaining more trees with proper identification by their scientific name, family, local name and a respective "QR Code" for each tree consisting of detailed morphology and uses of the plant.
- Conservation as well as generation energy.
- Efficient use of available water.
- Proper waste management.
- To be aware of environmental degradation factors.
- To accept the clean production concept.
- Restricted entry of pollution causing Fossil fueled vehicles.
- Recycling of organic waste as fertilizer in vermicompost plants.
- Aquaculture plant for the study of aquatic plants.

**The Context:** In current scenario there is a much need for conservation of nature and natural resources as we are facing several environmental problems. The main caused behind these problems is that human beings are consuming and exploiting natural recourses at a much quicker pace than they can be replenished. Pollution is

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becoming very serious issue day by day due to deforestation and urbanization. As our College is located at Jangal mahal and most of the students are backward class. It was necessary to aware them about the conservation of forest and other natural resources and also sustainable uses of available water and energy. A clean and healthy environment aids effective learning and provides a conducive learning environment. We decided to educate and make aware students on the issues such as renewable energy sources, waste management and recycling. We decided to work in the areas of power, plant, water and cleanliness. The stakeholders work to develop an eco-friendly, sustainable campus and to disseminate the concept of eco-friendly culture.

**The Practice:** HEI resolved to work with stakeholders to foster a culture of self-sustainability and eco-friendly campus. The time bound strategies are developed to implement green campus initiatives. At the outset, a "ECO CLUB" committee was formed comprises faculty from the Botany and others departments is constituted in consultation with IQAC. It was entrusted with the task of formulating strategies for a clean and green campus. This helps in strengthening the eco campus. Following are the initiatives for making an eco-friendly campus.

- a) **Plantation:** The different varieties of plant species are planted at defined intervals in the campus with the help of stakeholders. During the last five years, the college has planted lots of plants and trees in the campus. The present green campus is the outcome of our sincere efforts. Almost all plants are tagged with their scientific name, family, common name and a respective "QR Code" for their proper identification and other uses to the students. The college has a medicinal garden namely "Sido-Kanhu Vesaj Udyan" consisting of different medicinal herbs consisting of local and exotic flora

## Some common plant trees in our campus

Sl. No.	Scientific Name	Common Name
1	<i>Ficus benghalensis</i> L.	Bot
2	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Debdaru
3	<i>Roystonea regia</i> (Kunth) O.F. Cook	Royal Palm
4	<i>Santalum album</i> L.	Swet Chandan
5	<i>Plumeria rubra</i> L.	Lal tagor
6	<i>Mangifera indica</i> L.	Aam
7	<i>Azadirachta indica</i> A. Juss.	Neem
8	<i>Tabernaemontana gamblei</i> Subr. & A.N.Henry	Tagor
9	<i>Ficus religiosa</i> L.	Aswath
10	<i>Mimusops elengi</i> L.	Bakul
11	<i>Schleichera oleosa</i> (Lour.) Oken	Kusum
12	<i>Epipremnum aureum</i> (Linden & André) G.S.Bunting	Money Plant
13	<i>Saribus rotundifolius</i> (Lam.) Blume	Fan Palm

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14	<i>Adenanthera pavonina</i> L.	Rakto-chandan
15	<i>Swietenia macrophylla</i> King	Mehagoni
16	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Bohera
17	<i>Dypsis lutescens</i> (Wendland) Beentje & Dransfield	Ornamental Palm

## Some Medicinal Plant in campus

Sl. No.	Scientific Name	Local Name
1.	<i>Asparagus racemosus</i> Willd.	Satamuli
2.	<i>Ocimum tenuiflorum</i> L.	Tulsi
3.	<i>Curcuma longa</i> L.	Halud
4.	<i>Aloe vera</i> (L.) Burm.f.	Ghirtakumari
5.	<i>Mentha piperita</i> L.	Pudina
6.	<i>Bacopa monnieri</i> (L.) Wettst.	Bramhi
7.	<i>Hygrophila auriculata</i> (Schumach.) Heine	Kulekhara
8.	<i>Piper nigrum</i> L.	Golmorich
9.	<i>Withania somnifera</i> (L.) Dun.	Aswagondha
10.	<i>Cymbopogon schoenanthus</i> (L.) Spreng.	Lemon Grass
11.	<i>Justicia spicegera</i> Schltl.	Lal-Basak
12.	<i>Justicia adhatoda</i> L.	Sada-Basak

**b) Conservation of energy:** The college receives an inadequate power supply from the local power grid for its academic and administrative needs. Hence, in order to meet our requirements, the resources are used very economically which is resulted in minimum expenditure on fuel, electricity bills. This helps us to overcome reliance on erratic power supply. Following initiatives are employed on campus:

- Tube lights and bulbs have been replaced with LED lamps.
- Installation of solar power street light
- Optimum power utilization is practiced.
- Plants in the campus are watered without wasting the water.
- Rainwater harvesting unit for conservation of water
- A water harvesting system is in place to collect rooftop water into the underground drainage.
- Students are provided safe and clean drinking water.

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## Evidence of Success:

- The green campus developed by the college helps not only to save the environment but also adds to the beauty of the campus. Besides providing shed to people, the plants are used for scientific studies.
- College is able to save a lot of money on electricity bills due above initiatives and is evidenced from past electricity bills.
- Water conservation methods employed are helping maintain gardens and campus green and eco-friendly.
- Ban on plastic items for plastic free Green Campus.
- Restricted entry of vehicles cause pollution free campus
- Vermicompost has made the college campus clean and beautiful.
- Eco-campus strategies employed resulted in one of the most beautiful and clean colleges in the vicinity. It has resulted in attracting more students.

## Problems Encountered and Resources Required: -

- Preservation and healthy growth of plants require a lot of human resource planning. The water shortage problem was overcome with drip irrigation.
- In the summer season, we have to face a lot of water scarcity.

## Notes:

- The college has displayed various slogans on environmental awareness in the campus to propagate the green campaign successfully. These slogans encourage students to protect plants and keep the environment eco-friendly.
- Use of paper cups and plates is encouraged and the use of plastic bags and plastic tea cups is banned. Plastic free culture is imbibed.
- Less paper communication and correspondence are practiced routinely. It encourages and practices communication through e-mails and social media.

## Pictures and Photos

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## Green Campus Policy

### Santal Bidroha Sardha Satabarshiki Mahavidyalaya

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Ref:

Date: 05/01/2022

### GREEN CAMPUS POLICY

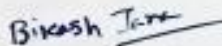
#### Introduction


"Cleanliness is next to the Godliness". The goal of the Green Campus policy is to keep the environment green and clean. The Greenland club is a platform to serve the cause of environment awareness, to undertake the green initiatives and to conduct green literacy programme to save energy and to protect the environment green and clean.

#### Policy

- To conduct an annual green audit.
- To set for the green campus mission.
- To maintain garden and landscaping.
- To keep the non-renewable plastic free campus.
- To restrict the entry of automobile in the campus.

The policy will be communicated to the students and employees via internal communication channels and will be made available to all stakeholders on basis of notice and website.

  
(Dr. Bikash Jana)  
Convener, Eco Club  
S.B.S.S. Mahavidyalaya

  
(Dr. Sankar Kumar Dey)  
Teacher in-charge  
S.B.S.S. Mahavidyalaya  
Teacher-in-Charge  
SBSS Mahavidyalaya Goaltore  
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Ref:

Date: 05/01/2022

### POLICY ON PLASTIC FREE CAMPUS

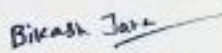
#### Introduction


It is becoming a key responsibilities of every citizen of our country to "Say no to Plastic" and awareness to the community about its cause and harmful effect. So, strongly supporting the cause, Santal Bidroha Sardha Satabarshiki Mahavidyalaya, implement the ban of non-renewable plastic.

#### Policy

- The campus is announced as non-renewable plastic free campus.
- An awareness sessions will arrange about the effects of plastic to students and stakeholders periodically.

The policy will be communicated to the students and employees via internal communication channels and will be made available to all stakeholders on basis of notice and website.

  
(Dr. Bikash Jana)  
Convener, Eco Club  
S.B.S.S. Mahavidyalaya

  
(Dr. Sankar Kumar Dey)  
Teacher in-charge  
S.B.S.S. Mahavidyalaya  
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Ref:

Date: 05/01/24

### ENERGY CONSERVATION POLICY

#### Introduction

The goal of the Energy Conservation Policy is to create awareness and need of the maintenance of environment and energy saving to the stake holders.

#### Policy Making

The Energy Conservation Policy of Santal Bidroha Sardha Satabarshiki Mahavidyalaya is to manage energy in such a systematic way so as to minimize its impact on the environment. The policy implies to explore the renewable energy resources to reduce the burden of the government and to find out substitute natural resources as solution to the energy crisis.

#### Policy

- To assess our energy usage and measure its impact on the environment
- To count CO<sub>2</sub> emission generated by our means of transportation.
- To reduce local air pollution emission using environment friendly vehicles, including bicycles, public transportation and use of pedestrian friendly pathways are encouraged.
- To install solar panels for the generation of alternate energy.
- To install LED bulbs in the entire campus to save energy.
- To develop systematic waste management system.
- To develop rainwater harvesting system.
- To undertake plantation programme.
- To provide information and training opportunities on energy saving measure.
- To give instruction to students to switch off the light, fan when not in use.

The policy will be communicated to the students and employees via internal communication channels and will be made available to all stakeholders on basis of notice and website.

*Bikash Jana*

(Dr. Bikash Jana)  
Convener, Eco Club  
S.B.S.S. Mahavidyalaya



*(Dr. Sankar Kumar Dey)*

(Dr. Sankar Kumar Dey)  
Teacher in-charge  
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## Circular

### Santal Bidroha Sardha Satabarshiki Mahavidyalaya

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Ref:

Date: 04/05/2022

#### CIRCULAR ON GREEN CAMPUS

We are delighted to announce the launch of our Green Campus Initiative, an effort to promote sustainability and environmental consciousness within our institution. As an educational community, it is our responsibility to cultivate an environment that is not only conducive to learning but also demonstrates our commitment to protecting the planet.

HoD's of all department are informed to circulate the policy and procedures to be followed to attain the objectives.

Copy to:

- All Head of The Department
- Office



Teacher-in-Charge  
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Ref:

Date: 04/05/2022

### CIRCULAR ON PLASTIC FREE CAMPUS

This is to inform that our college implementing a policy to prohibit the use of non-renewable plastics in campus. This step is being taken to promote environment sustainability and reduce the negative impact of plastic waste.


To adhere this policy we kindly request all students and stakeholders to refrain from using plastics within the mentioned areas.

- Avoid the use of non-renewable plastic bottle, carry bags etc. in the campus.
- Use alternatives such as reusable water bottles, cloth bag etc.

Copy to:

- All Head of The Department
- Office



  
Teacher-in-Charge  
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Ref:

Date: 04/05/2022

### CIRCULAR FOR ENERGY CONSERVATION

This is to inform all the students and stakeholders of our college to maintain following points for "Energy Conservation" with in the campus.

- Turn Off your monitor whenever you leave.
- Turn Off all lights, fan, AC and other electronic gadgets whenever not in use.
- All are instructed to close the taps properly after the use, in order to to avoid waste of water and electricity.

Copy to:

- All Head of The Department
- Office



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## Restricted Entry of Automobile

College restricts all types of fossil fuel emitted vehicle in the college campus for reduce the carbon emission in the campus, except in emergency purpose.



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## No Parking Zone

College has restricted for parking all types of the vehicle in front of college office. It has specified parking facility.



## Pedestrian Friendly pathways

College provides the pedestrian friendly pathways for all students and staffs of the college.



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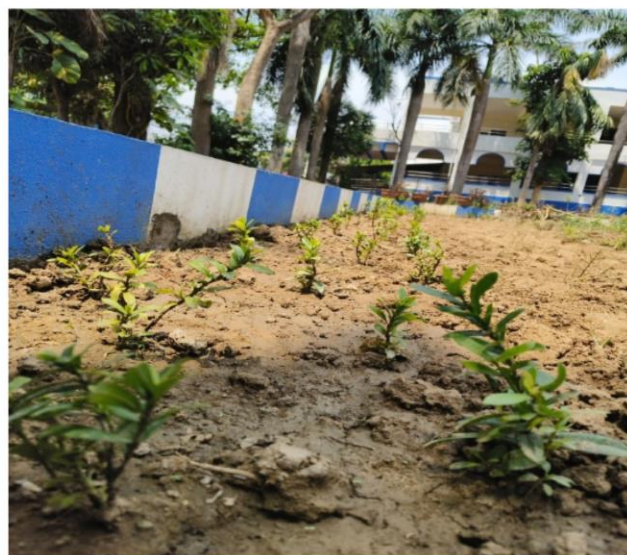
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## Green Landscaping

College has beautiful garden with proper landscape design and consist various flora including Trees, climber, shrubs and herbs.



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## Floral Cover in the Main Building

Various seasonal and non seasonal flowering diversity exist in our college campus, throughout the year.



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## Medicinal plant Garden

College has a medicinal plant garden namely “Sidhoo Kanhoo Medicinal Garden” maintained by Department of Botany. Garden consist various types of local as well as exotic medicinal plant flora for awareness to the students as well as general public.



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## Plant and Trees in the College Campus

Except the medicinal garden college has a floral garden of various seasonal and non seasonal flowers. College campus consist several wild flora and fauna that are conserved.

### Details of Trees and Plants on Campus

SBSS Mahavidyalaya situated on the core of Jungle Mahal area of West Medinipur District. Various types of vegetation of Trees, herbs, shrubs and lianas are grows into the college campus. Under the supervision of Department of Botany all the trees species of our college has been tagged with nameplate. Each name plate consisting its Scientific name, family and a 'QR' code which provide the detail uses of plants. Most of these tree species are planted for different periods of time through various plantation programmes organised by the authority. The trees of the college have increased the quality of life, not only for the college fraternity but also for the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind Many species of birds and squirrels are dependent on these trees mainly for food and shelter. The following are the tree species with whom we are being attached.

Sl no	Local Name	Scientific Name	Family Name
1.	Bottle palm	<i>Roystonea regia</i> (Kunth) O.F.Cook	Arecaceae
2.	Debdaru	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Annonaceae
3.	Bot	<i>Ficus benghalensis</i> L.	Moraceae
4.	Palash	<i>Butea monosperma</i> (Lam.) Taub	Fabaceae
5.	Sal	<i>Shorea robusta</i> Gaertn.	Dipterocarpaceae
6.	Chandan	<i>Santalum album</i> L.	Santalaceae
7.	Kusum	<i>Schleichera oleosa</i> (Lour.) Merr.	Sapindaceae
8.	Akashmoni	<i>Acacia auriculiformis</i> A. Cunn. ex Benth	Fabaceae
9.	Sisoo	<i>Dalbergia sissoo</i> Roxb.	Fabaceae
10.	Neem	<i>Azadirachta indica</i> L.	Meliaceae
11.	Red Tagor	<i>Plumeria rubra</i> L.	Apocynaceae
12.	Aam, Mango	<i>Mangifera indica</i> L.	Anacardiaceae
13.	Tagor	<i>Tabernaemontana gamblei</i> Subr. & A.N.Henry	Apocynaceae

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14.	Asawath	<i>Ficus religiosa</i> L.	Moraceae
15.	Fan Palm	<i>Saribus rotundifolius</i> (Lam.) Blume	Arecaceae
16.	Bahera	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae
17.	Rakt Chandan	<i>Adenanthera pavonina</i> L.	Fabaceae



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## Ban on Use of Plastic

College has taken a policy of zero tolerance of non reusable plastic and related items in the college campus to maintain plastic free green campus.



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## Eco Club

Several meeting resolution, decision and policies was implemented by ECO Club of the college to maintain awareness to the stake holders and student regarding green campus.



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## Solid waste management



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## Liquid Waste Management Plant in Campus



## Vermicompost Facility for Organic Waste Management



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## E-waste management



## Rainwater Harvesting



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## Construction of Tanks and Bunds



## Under Ground Water Tank

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## Maintenance of Water Bodies and Distribution System in the Campus



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## Solar Street Light Installed in the Campus



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## LED light Installed in the College



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## USE of LCD Monitors



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## Clean Campus

