

WORLD ENVIRONMENT DAY CELEBRATION-2022

ONLY ONE EARTH ACTIVITY REPORT

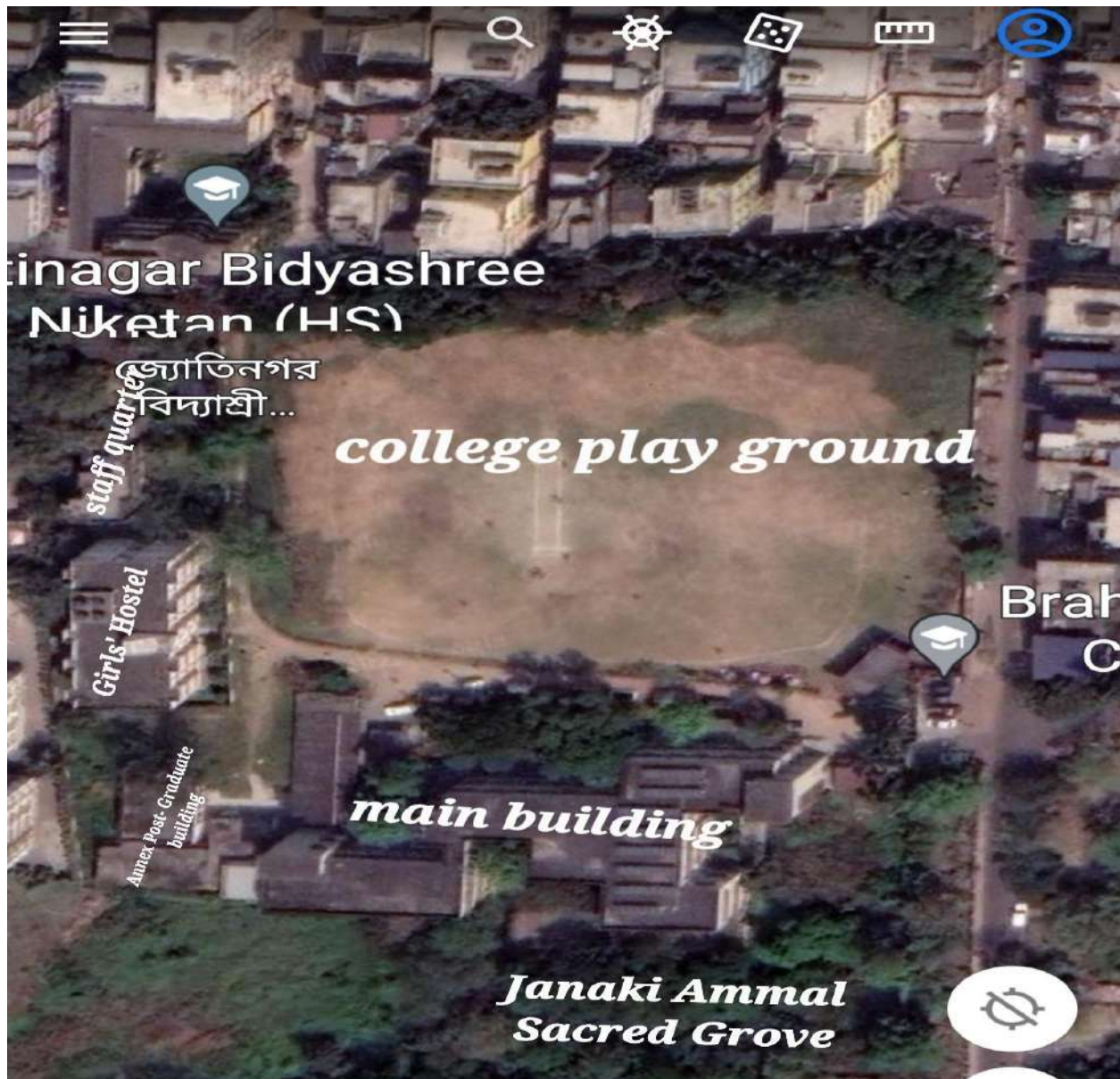
Submitted to

Mahatma Gandhi National Council of Rural Education

SUBMITTED BY

Dr. Madhumita Roy, Assistant Professor in Zoology,
Swchhta Action Plan Coordinator
Brahmananda Keshab Chandra College
111/2, BT Road, Bonhooghly, Kolkata-700108
West Bengal





ABOUT THE COLLEGE:

The College was established in Bon-Hooghly in the year 1956 as one of the colleges under the scheme with the aim of providing higher education, and was named after Brahmananda Keshab Chandra Sen, the great socio-religious reformer of the country, during the Renaissance. Initially the college was housed at Sagar Dutta Free High School, Kamarhati and later moved to its own present premises in 1957. This college, a NAAC accredited UGC registered college (under 2f and 12B) is one of the premier institutes in North 24 parganas. Initially affiliated to the University of Calcutta, the college has now been affiliated to West Bengal State University, Barasat, from the session 2008-2009. Swachhta Action Plan committee (SAP) started its journey through an orientation workshop by the MGNCRE Action Plan Committee on 9th of January, 2021. As a result BKC College has been recognised as a 'Swachh Institution' by the Ministry of Education.

Mission of the Institution:

The mission of the College is to foster a sense of social responsibility among the students. To encourage innovative thinking and creativity among the students. To instill in the students' moral values, discipline and dynamism along with imparting quality education. To supplement and enrich the existing curriculum through seminars and extension lectures delivered by eminent scholars. Apart from that, our swachhta mission is to provide all sorts of means to make the college a Swachh Campus and maintain the same. Using all available resources in a more appropriate and sustainable way. Recycling, reuse and harvesting resources each year to reduce the carbon footprint. Conducting more conservation awareness programmes thus making the college one of the leading institutions in West Bengal practicing swachhta mission.

Vision of the Institution:

The vision of the college is to make higher education available to aspiring youth of the country. Students are equipped to meet the challenges of an ever-changing world through a holistic model of education. To optimize the use of available infrastructure for sustainable development of the college. To develop a resilient, sustainable, ecologically stable use and supply of resources in campus so that safe and affordable services can be retained in the campus. We are very hopeful to improve the existing facilities and infrastructure to conserve the resources, for example planting local water resilient trees in the campus to maintain the groundwater table.

❖ ACTIVITY 2

Greening and Greenery Rating

Brahmananda Keshab Chandra College has a rich biodiversity in its campus. Total Area of the college campus is about 6 Acre. The student volunteers of Swachhta Action Plan Committee(SAP) carry out the botanical inventorization of the flora growing in the campus at regular intervals under the supervision of the Greenery Team.

Green audits are done by the green team on a regular basis to register and maintain the plant diversity and increase the canopy cover on the college campus. Regular plantation drives by the NSS unit, SAP Greenery team, and the Eco-Club of the Botany department help to maintain plant diversity on campus. The status of different lifeforms(plants) recorded from the campus so far are 32 herbs, 12 shrubs and 30 tree species. Local resilient fruiting and flowering trees like mango, jackfruit, Guava, Star-apple, Lichi, chiku, black berry, wild almond, chalta, Amda, Star apple and Neem, Ficus, Jaarul, Gulmohor, Radhachuda, Amla, Bottle palm, Mehagani, Sisam, Palash, Bahera, Arjun, Shimul, Pipal etc. are being planted over years to maintain the faunal diversity as well. The lockdown along with the Amphan cyclone in 2020 had resulted in 80% invasion of the herbaceous cover by the invasive species *Sesbania sesban*. Post lockdown, the college administration under the supervision of the Green Team members of the SAP committee have successfully eradicated the invasive species before it reached the reproductive stage in its second generation.

Our College maintains the '**Janaki Ammal Sacred Grove**', a natural forest patch and wetland corridor within the campus which has provided the required canopy cover for attaining the 'Green Champion' title. The '**Janaki Ammal Sacred**' Grove in the college premises is the house of many

Trees, Shrubs and medicinal plants like *Andrographis paniculata*, *Eclipta alba*, *Stephania sp*, *Dellinia indica* and others. The college has approximately 7500m² of playground covered by lush green grass. The unconstructed barren areas are 830 m², also mostly covered with grass, herbs and shrubs. According to the guidelines of SAP Committee college does not promote concrete roads and open areas with concrete ground. Our green campus not only soothes eyes and give aesthetic pleasure but provides ample oxygen to the atmosphere and maintains ambient air quality of the college campus though it is located in a very congested urban area.

To reduce the carbon footprint some papers are being reused and most of the official work is done by using electronic and social media (email, whatsapp, facebook, youtube). Classes are being conducted both offline and online using ICT facilities and different social media platforms.

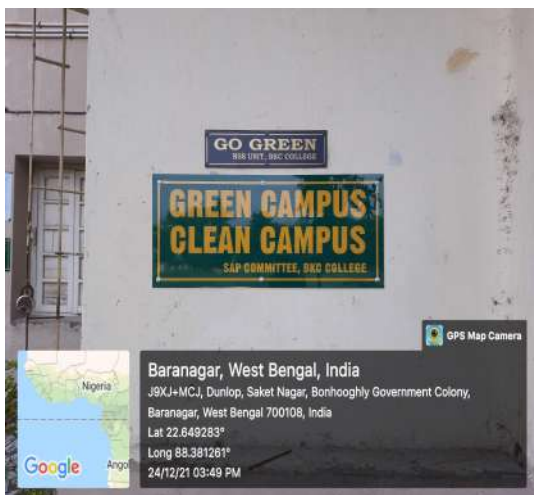


- **World Environment Day-2022**

A week-long Programme was Scheduled by Swachhta Action Plan Committee (SAP) For the celebration of World Environment Day-2022 including awareness seminar, student debate, college campus cleaning activity, awareness rally in adjoining community area and e-waste segregation and disposal activity. Student volunteers were divided into five groups under five SAP subteams. All subteam leaders hold group meetings to chalk out their plan of action for carrying out different activities like, energy audit, water audit, vehicular use by staff and faculties and students, campus

cleaning, preparing posters and banners from recycled materials to display at relevant sites in college campus and for awareness rally.





Total land area available on the campus and fill in the table

The measurements were done from the google earth map of the college campus to estimate different categories of area.

Total Land Area Occupied	
Description	Area in Square Metres
Constructed area	2,640
Green Area inside the boundary (Green area includes any area which has grass cover, tree cover and horticulture)	15,880
Unconstructed barren area or others	830
Total land area	19,350



The percentage of green area on the campus

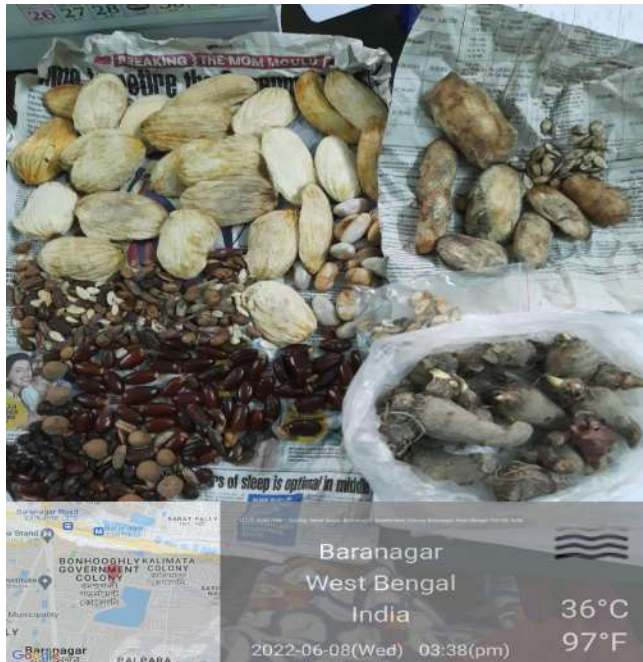
S No	Criteria	Maximum Points	Points scored
1	The area under green cover	66	66
2	Campus Nursery Management	14	8
3	Plant Protection Management	20	15
	Total	100	89

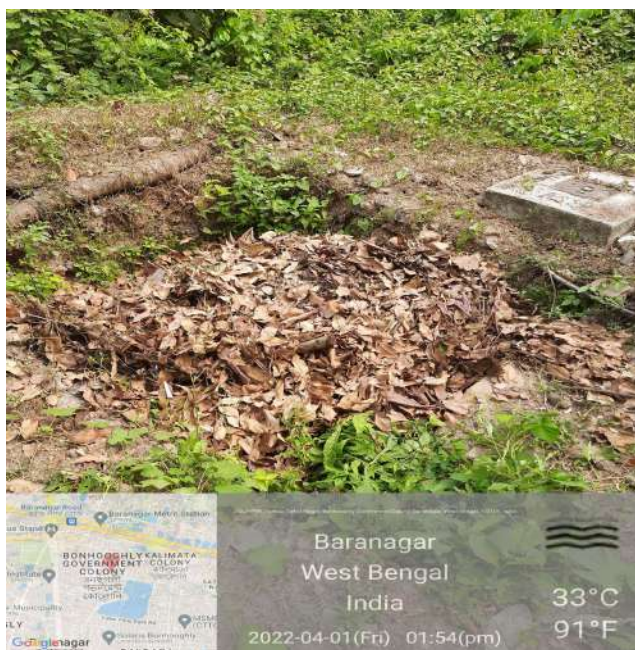
❖ ACTIVITY 3

Reinforcing Greenery on Campus by setting up a nursery:

Our campus is completely covered with green, on every occasion, we plant trees that are donated by the faculty, students and. Recently we have started a small nursery set up for production of more plants from cuttings and seeds. The Green Team collects seed of seasonal

fruits and flowers from students, staff and faculty members to maintain a seed bank. So that new plants can be grown and planted in the local communities and on college campus as well. In place of fallen trees new saplings are planted to maintain the green coverage and ecological balance. Student volunteers are assigned duty for regular watering of newly planted saplings. Medicinal plant garden beds have been prepared for setting up a nursery of medicinal plants. Two compost pits are in function to make organic compost from leaf litter for the use in the nursery planters.





NURSERY MANAGEMENT

S No	Campus initiatives	Points	Management response	Scored
1.	Allocation of designated place for plantation	4	Highly satisfied	4
2.	Maintenance of nursery with shade and water	4	satisfied	2
3.	Nursery staffed	4	Not sufficient	1
4.	Nursery strategy for campus and community plantation	2	satisfied	1
Total		14		8

Plant protection management:

Swachhta Action Plan green team tries to protect the plants and trees in the campus by physically setting up boundaries and fencing of newly planted saplings. Student volunteers and staff are assigned with duties of watering the plants. Organic compost produced in the compost pits and bio enzymes prepared by students is used as manure for promoting plant growth. Awareness to protect the plants is done by programmes like seminars, plant Raksha Bandhan and Van Mahotsav Celebration.

Sl no.	Campus Initiatives	Maximum points	Yes	No	Point Scored
1	Plantation monitoring	4 pt if yes	Yes		4
2	Plant support with	4 pt if yes	Yes		4

	biofertilizer and water support				
3	Replacement plan for plantation	4pt if yes	Yes		4
4	Controlled biopesticide administration	2pt if yes	Yes		2
5	Locational drip support	6pt if yes		No	0
Total		20 points			14 points



Bioenzyme and biopesticide Production:

Student volunteers from the Department of Zoology (Biodiversity Unit) prepare bioenzyme and biopesticide using recycled plastic containers in collaboration with WWF India as an Eco Project from organic waste materials like citrus fruit peels, Onion and Garlic peels and pack them in recycled water bottles. The products are used for gardening purposes.



❖ ACTIVITY 4

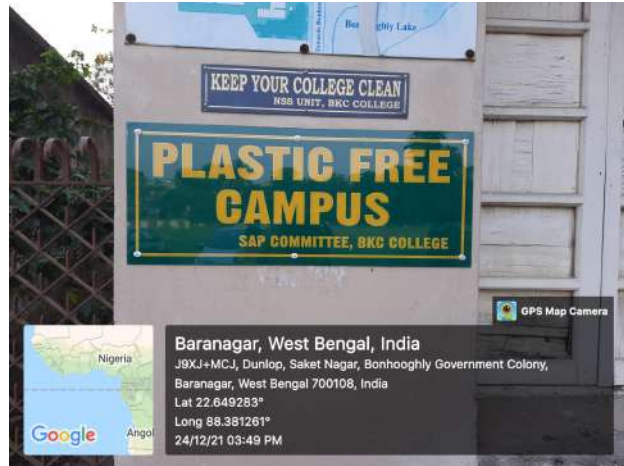
Zero Waste Championship

4.1: Clean Campus Drive:

Swachhta Action Plan Student Volunteers and NSS volunteers carried out activities like campus cleaning collecting non biodegradable solid waste from college campus to make it a litter free zone. Students prepared posters from recycled papers to display in relevant places in college buildings. Waste bins of different colours and labeling were placed for proper collection and segregation of solid wastes.



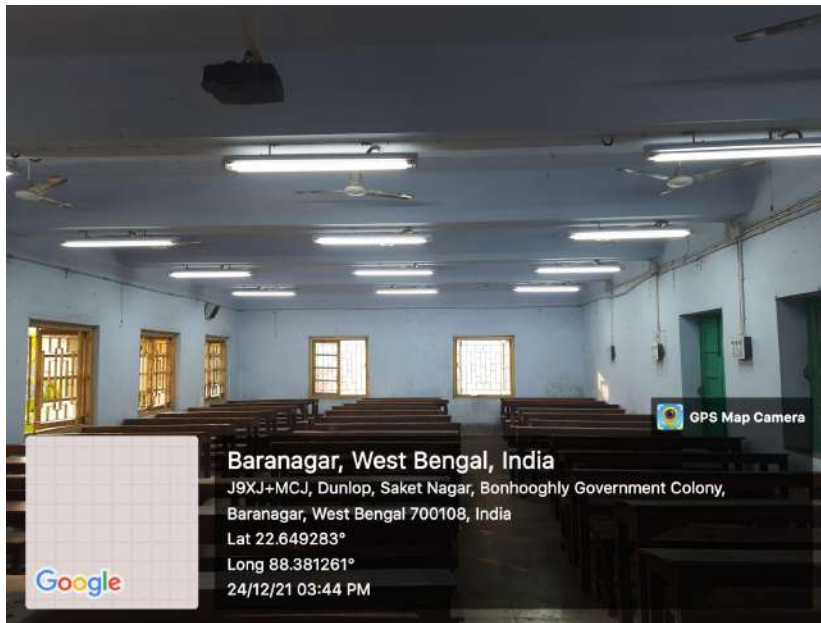




4.2. Energy Use and Conservation:

Energy audits were done by the Energy Management team to estimate the total energy budget of the college. To reduce the carbon footprint, replacement of neon lights was done with energy efficient LED lights and low wattage fans particularly in large classrooms. Solar power panels have been installed on the College rooftop as an alternative energy source and it started functioning on and from 10.12.2020 reducing electricity consumption. As a result Electricity bills of the college have been cut down to one third.





2.4. E-Waste Generation:

For Proper segregation and Disposal of E-waste a notice has been served so that each department, College office and library E-waste can be collected and disposed in collaboration with a NPCB Approved Company named 'Hulladec'. Starting from 3rd June 2022 to 15th 2022 June E-Waste segregation and Collection Activities. Disposal dates will be notified upon inspection and receiving a quotation from Hulladec.



❖ ACTIVITY 5

Our Green Decisions - Showcase your campus video

<https://youtu.be/BEhP7Z-YUv0>

❖ ACTIVITY 6

Creating awareness on campus and in the neighbourhood community:

- A seminar was organized on 1st June for college staff and students on setting up a Butterfly Garden in the Campus Backyard. Resource Person Mr. Archan Paul from Nature Mates Nature Club gave important insights about butterflies in maintaining the ecological balance and biodiversity in the college campus, and how butterflies can restore a degraded environment flourishing the flora and fauna.



- A student debate was organized by Phyto Friend, Department of Botany on 1st June, 2022 on how climate change is affecting our existence. Prizes for the winners were also distributed as appreciation of participation in the Student Debate.



- An awareness campaign was also organized in collaboration with the local municipality on 2nd June, 2022 in the adjoining area of the college to make people aware about the use of water, importance of plantation, keeping the surrounding clean by proper disposal of solid wastes, and appropriate ways to prevent misuse of electricity. All SAP volunteers and staff members took part in the awareness rally. The Municipality Chairman Smt. Aparna Moulik also addressed local people on the environmental issues and appreciated the endeavor of BKC College. Garbage vans collected non-biodegradable solid waste from surrounding areas and placards mentioning not to throw waste were implanted to make the local community cautious about solid waste disposal.





Baranagar, West Bengal, India
A-32, Bonhooghly A Block, Bonhooghly Government Colony, Baranagar,
West Bengal 700108, India
Lat 22.648152°
Long 88.383732°
02/06/22 11:53 AM