

SUSTAINABLE PRACTICES IN THE CAMPUS – A REPORT
(Submitted to MGNCRE, DHE, Ministry of Education, Government of India)

1	Date of Workshop / Field visit	04/03/2022
2	Name of the District Sustainability Mentor (DSM)	Dr. Jose Mathew
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4	Email of DSM	josemathew@sdcollege.in
5	District and State	Alappuzha, Kerala (State)
6	Name of Institution	Sanatana Dharma College
7	Address of the Institution	Sanatana Dharma College, Alappuzha -688003
8	University affiliated to	University of Kerala
9	District and State	Alappuzha, Kerala (State)
10	Name of Principal / Hol	Dr. P.R. Unnikrishna Pillai
11	Contact Number (whatsapp)	9446005200
12	Email ID	sanatanamalp@gmail.com
13	Number of students	2533
14	Number of faculty	88
15	Number of non-teaching staff	28

Report - 2021-22

#	Area	(TICK) THE ACTIVITIES BEING DONE FROM LIST BELOW (✓)	LIST OF ADDITIONAL ACTIVITIES (Please fill in)
1	SANITATION AND HYGIENE (CAMPUS& COMMUNITY/ ADOPTED VILLAGES)	✓ Post COVID19 Sanitation Measures and Drill ✓ Clean and functional toilets (365x24) ✓ Safe drinking water (365 x24) ✓ Clean surroundings ✓ Clean buildings/rooms ✓ Campus Landscaping ✓ Zero Littering ✓ Organize awareness programmes for better sanitation practices like using the toilet, hand washing, health and hygiene awareness and garbage disposal in the adopted villages € Work with SHGs for mask making and other similar activities	Well maintained ladies retiring room. Frequent cleaning of campus with the help of Clubs (Ecoclub, NSS etc.)
2	WASTE MANAGEMENT (CAMPUS& COMMUNITY/	✓ Campus/Dept wise waste audit ✓ Reduction in waste, month-on-month	

	ADOPTED VILLAGES)	<ul style="list-style-type: none"> √ Recycling waste (paper, organic waste form canteens and kitchens) √ Set up compost pit for recycling waste € Ban plastic use in the campus √ Ban flexi banners (Only cloth banners to be used) √ Paperless work – use of email, WhatsApp for communication √ Recycling Farm waste € Setting up community compost pits in villages √ Awareness camps for Clean and Green Village (Zero Littering – IEC Material) including banning single-use plastic € Partner with local NGOs and CSR organizations in this field 	
3	WATER MANAGEMENT (CAMPUS & COMMUNITY/ ADOPTED VILLAGES)	<ul style="list-style-type: none"> √ Audit of water sources in the campus € Audit of monthly water use in the campus € Audit of drinking water on campus (bottled water) √ Constructing/Increasing no. of Rain Water Harvesting pits in the campus √ Fixing leaky taps € Recycling water (grey, brown and black) √ Activities for recharging dry borewells € Converting villages into water plus areas € Partner with local NGOs and CSR organizations in this field 	<p>Water recycling unit placed in research, degree labs of Science Depts.</p> <p>Well interconnected roof channels for rainwater harvesting</p> <p>Separate Rain Water Harvest Unit and natural pools for water recharge are there</p>
4	ENERGY MANAGEMENT (CAMPUS & COMMUNITY/ ADOPTED VILLAGES)	<ul style="list-style-type: none"> √ Audit of energy efficient heating, cooling, lighting and water systems in the campus € Audit of building wise monthly use of electricity € Incentivize reduced electricity usage by depts. / buildings √ Create short-term and long-term plan for the use of solar energy on the campus 	<p>A well maintained solar panel grid in the roof top.</p> <p>The walkway has switched over to energy efficient LED lights with solar Photovoltaic systems.</p>

		<ul style="list-style-type: none"> € Cycles on the campus (reducing carbon footprints) √ Reducing carbon footprints via intelligent Purchase Standard Operating Procedures (SOPs) € Partner with local NGOs and CSR organizations in this field 	
5	<p>GREENERY (CAMPUS& COMMUNITY/ ADOPTED VILLAGES)</p>	<ul style="list-style-type: none"> √ Setting up a nursery/kitchen garden € Setting up a seed bank √ Setting up a compost pit € Researching trees that take up minimal water and are good for the ecosystem √ (local, resilient species) and planting them during monsoon and taking care of them (Vanamahotsav) √ Landscaping in the campus √ Use of organic manure for the plants √ New buildings on the campus will follow green building norms € Partner with local NGOs and CSR organizations in this field √ Growing Miyawaki forests / Nakshatra-vanam on barren land/Village Greenery Programme 	<p>Medicinal plant garden (National Medicinal Plant Board Project)</p> <p>Nakshatravanam</p> <p>Tropical Orchards</p> <p>Botanical Garden</p> <p>Vegetable Garden</p> <p>Fish Tank</p> <p>Associated activities of various clubs Ecoclub, Bhoomitra Sena, NSS, Dharni, Harithasena, Paristhithikam, ED Club are played key role in making campus green</p>

We have observed and celebrated the following Days to inculcate and internalize in our faculty, students and community, the values of Mentoring, Social Responsibility, Swachhta and Care for Environment and Resources (tick all the days you have celebrated and/or fill in any celebratory day not listed here

#	Day	Date	Insert tick mark (✓)
1	National Youth Day	Jan 12	
2	International Mentoring Day	Jan 17	
3	Global Community Engagement Day	Jan 28	
4	World Wetlands Day	Feb 2	√
5	World CSR Day	Feb 18	
6	World NGO Day	Feb 27	
7	World Water Day	Mar 22	√
8	CSR Day India	Apr 1	
9	Earth Day	Apr 22	
10	World Environment Day	June 5	√
11	No Plastic Day	July 3	
12	World Population Day	July 11	
13	World Entrepreneurs Day	Aug 21	√

14	World Habitat Day	1st Monday of October	
15	National Mentoring Day	Oct 27	
16	Women's Entrepreneurship Day	Nov 19	
17	World Toilet Day	Nov 19	
18	National Pollution Control Day	Dec 2	
19	World Soil Day	Dec 5	√

Date of Report:

Digital Signature of DSM

12/03/2022



Annexure 1

Photographs of Sustainable Practices in the Campus



Students involved in gardening



Medicinal plant garden



Landscaping



Landscaping



Solar panel units



Biogas plant



Waste recycling ideas (wastebasket prepared from paper and plastics)



***IIa* Exhibition (Indigenous biodiversity exhibition)**



Locally available food items (*Ila* Exhibition)



Agri Horticulture Exhibition



Waste removal from campus



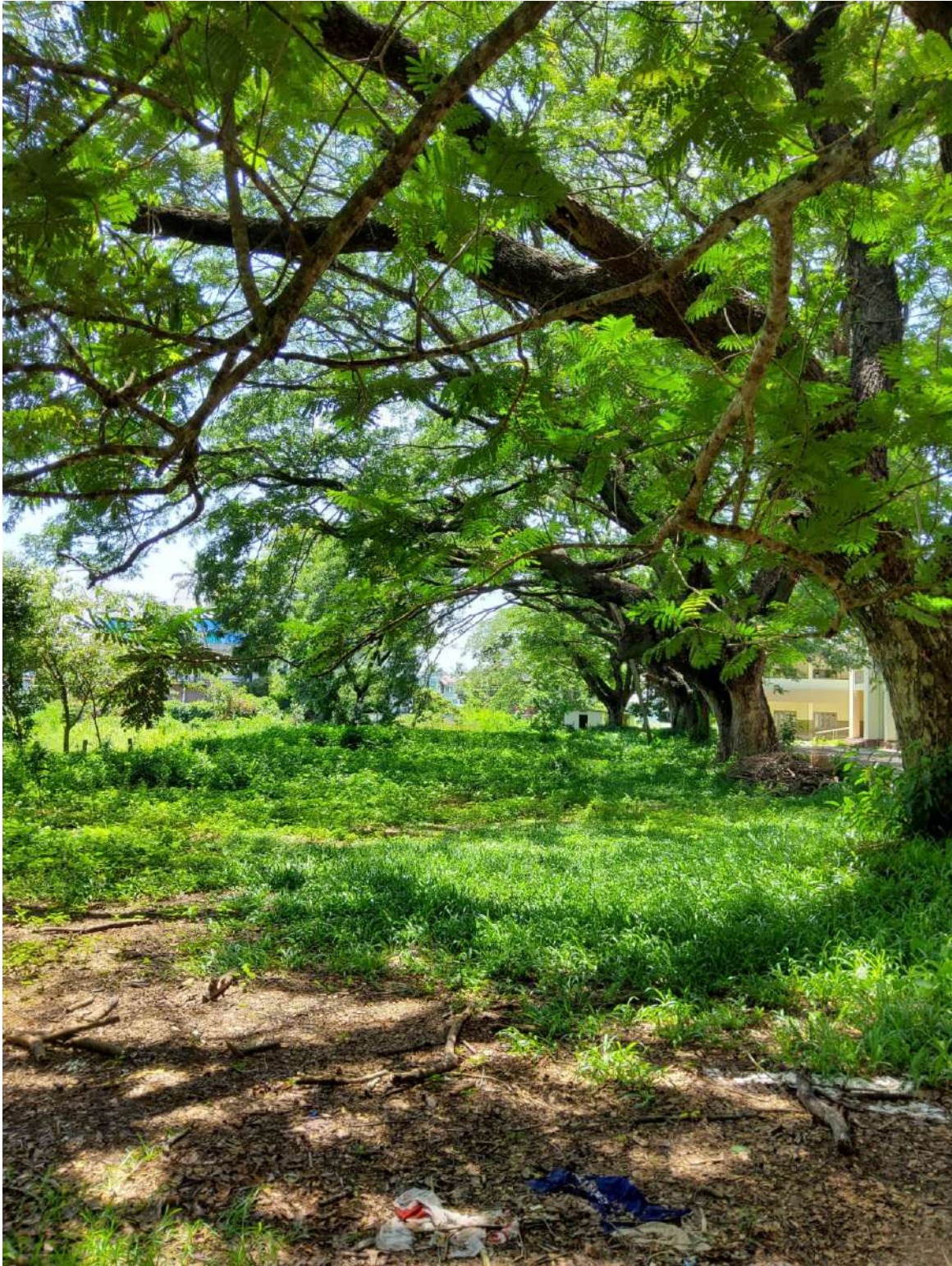
Cleaning Pathiramanal Island (Social responsibility)



World Environment Day Celebration



Workshop on Biodiversity



Green canopy



Vegetable Garden



College Ground



Ground water recharge unit



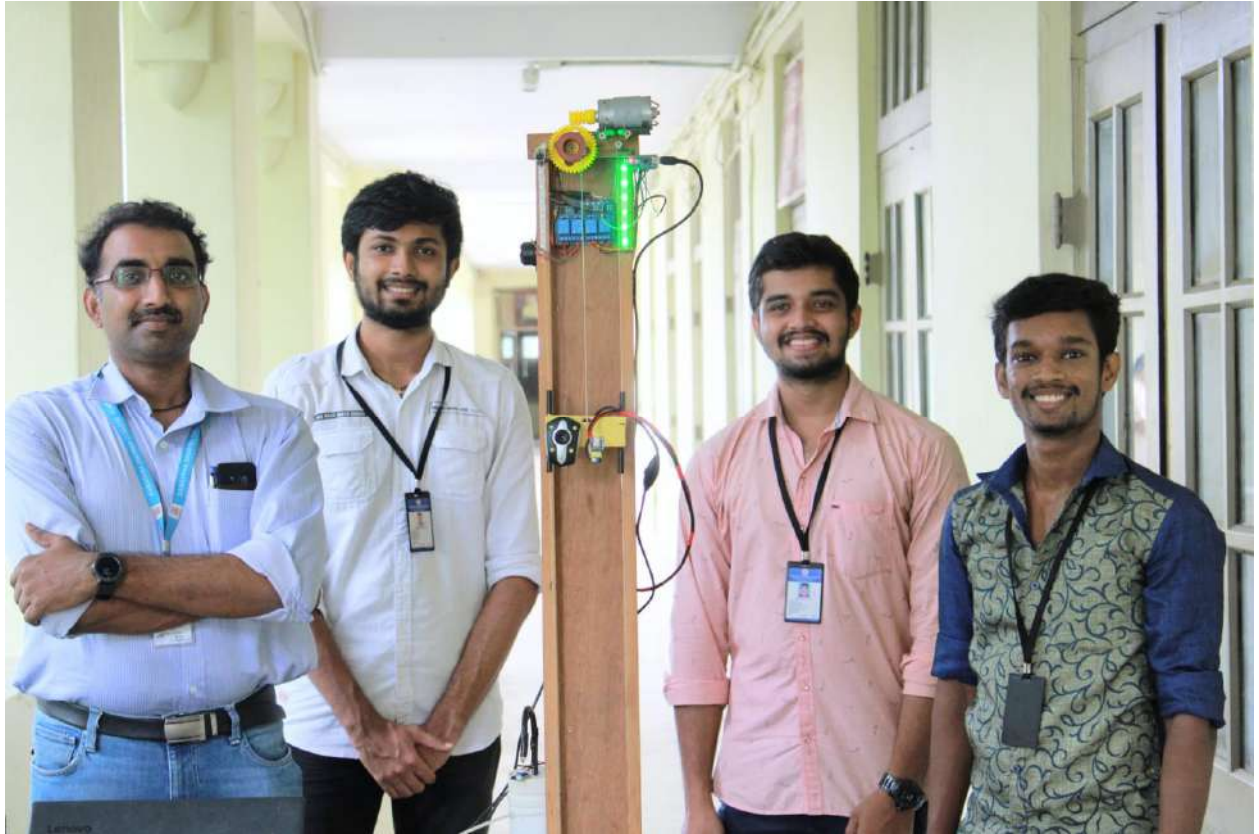
Waste segregation Unit



Bird feeding pots



Centre for Research on Aquatic Resources focusing on value added products from weeds



Automated system designed to monitor temperature (Covid prevention measures)

Mahatma Gandhi National Council of Rural Education

Department of Higher Education, Ministry of Education, Government of India

Sustainable Campus Plan - 2021-22

College Success Story

1. Name and Introduction of the Institution (5 lines)

Sanatana Dharma College Alappuzha

Sanatana Dharma College (S. D. College), Alappuzha is one of the oldest and largest educational institutions affiliated to the University of Kerala. The college was set up in 1946 under the aegis of Sanatana Dharma Vidyasala and has successfully completed 75 years of meritorious service in the field of higher education. As it celebrates the Platinum Jubilee in 2021-22. The college is recognized by UGC under Sections 2(f) and 12(B). It has been re-accredited by the National Assessment and Accreditation Council (NAAC) with A+ grade and a CGPA of 3.53 in the 3rd cycle.



2. Strength of the Institution (Full-time)

Student Strength	2533
Faculty Strength	88
Guest Faculty	15

Non-Faculty Strength	24
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3. Residential Facilities

Include key sustainable features

Sanatana Dharma College situated in Alappuzha Municipal are within 12 Acre land. Campus provides all facilities viz., safe drinking water, well cleaned toilets, uninterrupted power and provision of water, E – Learning Room and Wi-Fi network etc. It has a dedicated housekeeping and maintenance team to maintain these facilities. An enriched and well maintained library with online facility, well equipped physical education training centre are other important factors of the college. There are adequate number of toilets equipped with latest fittings and modern anti-skid flooring and exhaust fans. Special provisions have been made for persons with disability. Sanitation and hygiene is ensured by proper maintenance and cleanliness of toilets. Well maintained. More than 65 percent of the campus is considered as the green cover.

4. Solid and Liquid Waste Management in Campus

Include key sustainable features

Recycle, Re-Use, Reduce, Refuse, Composting

Collection, segregation and Disposal

Biomedical waste management, laboratory waste management

Administration of waste management

Monthly cleaning in the campus ensures with the activities of various clubs and forums. Major solid wastes in the campus are paper, food waste, and waste from toilets. Paper and food wastes are segregated properly and undergoes recycling procedures. Glass wastes from labs and plastics were properly segregated and systematically be transferred to agencies. Minimum usage of water ensures through efficient tap systems. Biochemical wastes properly disposed after autoclave treatment. Awareness on responsible waste management is the slogan of Green Army.

5. Hostel Kitchen Facilities

Include key sustainable features

College provides well maintained canteen facility. It is blessed with family atmosphere, with a variety of delicacies, touched by a homemade flavour, cooked to perfection and served with a great courtesy. Adequate seating facilities are provided to accomodate students and staff even during peak time. Proper waste management facility ensures in kitchen.

College has a Cooperative store which provides essential materials and stationary items for students and staff.

6. Campus Greenery

Include key sustainable features

Area under green cover (%), nursery on campus, plant protection management, tree plantations, exotic, medicinal, local species plants

The labourers, students and gardeners that maintain 65 % greenery and landscape of the campus. Over 300 different types of plants have been planted in and around the campus area. A medicinal plant gardens, Botanical garden, Ornamental garden, Arboretum and Orchards are holding the diuversity. Classroom garden, Vertical garden, Nakshatra Vanam, Vegetable garden, Nalpamara, Asokavani are other key focusing points of the campus. Saplings are protected by the use of organic pesticides and in-house prepared compost.

7. Land Use Management

Include key sustainable features

Sustainable activities, constructed and non-constructed area, proposed areas for greenery development, land use management plan

- The college has identified areas in and around campus for innovative research blocks.
- The college proposes to plant 10% of the unused land for plantations.

8. Solar Energy Conservation

Include key sustainable features

Solar Panel Installations, demand and supply of energy, solar energy generated (KW per month/year)

The college has an in-house solar power plant with 60 KW capacities. Solar photovoltaic street lights are also installed across the campus. Moreover, a new building under construction is supposed to be provide self-sufficiency in solar energy.

9. Water Management

Include key sustainable features

Quantified water usage, water availability, rainwater harvesting, recycling of water from sewage treatment plant (STP), functional drainage systems

- Water samples were collected from the wells in the college campus and the water quality is found to be moderate to good and all the parameters are in line with the permissible limits of drinking water standards.
- A total number of 3 Shallow Tube wells exist within the premises of the College. All existing wells are found functioning.
- In order to promote groundwater recharge through rain water harvesting structures from roof top areas with recharge pits are provided over and across the premises.
- A recharge pit allows the rainwater to replenish groundwater by recharging the underground aquifers. It can be built to recharge a bore well or just to help the water infiltration in an area.
- College celebrate water day and Wetland day to create awareness in between students and public.
- College has maintained an open pond system in associated with artificial wetland.
- Well maintained RO system to ensure water quality

10. COVID 19 Interventions

Include key sustainable features**Sanitation and Hygiene****Counselling****Technology****Other**

Students and teachers made an automated thermal scanning system to detect temperature monitoring. The college has undertaken COVID counselling sessions for the students. The college distributed kits of essential commodities to the students. At the entrance of the campus, hand wash and sanitizer were provided. Face mask ensures inside the campus. Kerala Govt.'s covid protocol and precautions are implemented inside. The examinations and gathering conducted with covid protocols.

11. Adopted Villages

Nil.

But NSS, NCC and clubs like Paristhithikam are involving in the upliftment of the local villages.

12. Key Institutional Achievements/Outcomes (10-15 lines)**Include key sustainable features**

- About 65% of the campus with green cover
- The hostel are provided with 24 x 7 clean running water and uninterrupted power supply
- Nakshatra vanam, Orchards, Arboretum, Herbal Garden, Vegetable Garden etc. with green concept maintained in the campus.
- The college has installed a Roof-Top Solar Photo Volatic system
- Advanced research labs and sophisticated APJ Abdul Kalam Research Station with E learning facility
- Annual Green, Energy, Air, Hygene, Water audits reports are maintained
- Workshops and conferences on biodiversity, environmental issues, recycling of plastics and wastes frequently done to create awareness.
- Ground water recharging units including natural ponds are functional.
- Well maintained RO water unit.
- Well-equipped training centre and play ground
- Faculties are associated with green initiatives of Govt. of Kerala (Kerala Forest Dept, Biodiversity Board, Haritha Kerala Mission etc.)
- Well organized clubs on environmental concerns are there (Eco Club), Bhoomithra Sena, Green Army, Paristhithikam, NSS, IEDC etc. are involving in this array)
- CRAR (Centre for Research on Aquatic Resources) mainly focusing on value added products from aquatic weeds.
- The research team focusing on quality publications on ecological perspectives (Eg. New species discovery [recently discovered a new species and given college name; *Phyllanthus sanatanadharmae*], new devices, patents etc.

