



शिक्षा मंत्रालय
MINISTRY OF
EDUCATION

Swami Swatantranand Memorial College, Dinanagar

In collaboration with

Mahatma Gandhi National Council of Rural Education

Department of Higher Education, Ministry of Education, Govt. of India

National Institutional Sustainability Rankings 2022-23

Report on First 5 Parameters:

- Green Cover on Campus
- Surface Water Harvesting
- Rooftop Water Harvesting
- Rooftop Solar System
- Waste Management

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About College

Swami Swatantranand Memorial College, one of the Prestigious Institutes of this area, was established in 1973 in the sacred memory of Swami Swatantranand Ji, founder of Dyanand Math Dinanagar, a staunch Arya Samajist, freedom fighter and social reformer. The foundation stone was laid down by Swami Sarvanand Ji, then the Acharya of Dayanand Math, Dinanagar. At present it is being run under the judicious and sagacious guidance of Swami Sadanand Ji, the present Acharya of Dayanand Math, along with other members of the Management Committee.

During the last 50 years, the seed sowed by early Founders of the college has grown into a full-fledged tree to take the legitimate pride in rendering meritorious services in this Rural, Backward and Border Belt Area by carving a niche for itself in the educational spheres. Endeavoring to be one of the Best and Speedy growing institutions, the college has been expanding its wings in all fields by adhering to moral values as its strength. Team of SSM College is pioneer in promoting nature friendly practices through its teaching- learning & co-curricular activities. Sustainability practices through water harvesting, waste management, green campus, clean energy, and clean air quality in the campus bring elements of nature in its teaching-learning practices.

**About your association with MGNCRE
(to be written by principal only)**

Under the Ministry of Human Resource Development in the Government of India, the Mahatma Gandhi National Council of Rural Education works to promote resilient rural India through Higher Education interventions. In connection with this, a workshop was attended of MGNCRE, Department of Higher Education, MHRD Government of India on 23/11/2022 from 11 am to 12.00 noon. Mr. Samarth Sharma was the resource person. He explained about the Social Entrepreneurship, Swachhta and Rural Engagement (SESRE) cell activities of the institute and future. The objective of the workshop was the establishment and functioning of SESRE Cell.

After participating in this workshop, the college conceptualized more clean campus initiatives, environmental planning, and resource management, i.e., improving energy efficiency, conserving resources, enhancing environmental quality, including healthy living environment, the use of renewable energy, waste management, and water recycling. The college is committed to extend education beyond the classroom to foster a long-term commitment to responsible behavior, habits, and hygiene, be it at home, on campus or in the community at large. Various activities organized in the campus under the guidance of SESRE Cell to promote cleanliness.

Working of

- Vocational Education-Nai Talim-Experiential Learning (VENTEL)
- Social Entrepreneurship, Swachhta and Rural Engagement (SESRE)
- Rural Entrepreneurship Development (REDC)

About

In accordance with these guidelines, the college has established a Social Entrepreneurship, Swachhta, and Rural Engagement Cell (SESREC).

Committee:

Sr. no	Name of the faculty	Nature of work
1.	Mrs. Sushma Devi	Sanitation and Hygiene (Campus) Sanitation and Hygiene (Community/Adopted villages – To Promote rural Social Entrepreneurships and Community Engagement)
2.	Dr. Harinder Kaur	Waste Management (Campus) Waste Management(Community/Adopted villages – To Promote rural Social Entrepreneurships and Community Engagement)

3.	Dr. Ritika	Water Management(Campus)
4.	Mr. Dharuv	Water Management(Community/Adopted villages – To Promote rural Social Entrepreneurships and Community Engagement)
5.	Dr. Ritika	Energy Management(Campus)
6.	Dr. Hirdesh	Energy Management(Community/Adopted villages – To Promote rural Social Entrepreneurships and Community Engagement)
7.	Mrs. Kavita Sharma	Greenery(Campus)
8.	Mrs. Kavita Sharma	Greenery((Community/Adopted villages – To Promote rural Social Entrepreneurships and Community Engagement)

Participants/ Students Involved in these Cells

Sr no	Name of the students	Phone no	Email id
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MGNCRE Sustainability Indicators, Points and Ranking

1. Green Cover on Campus

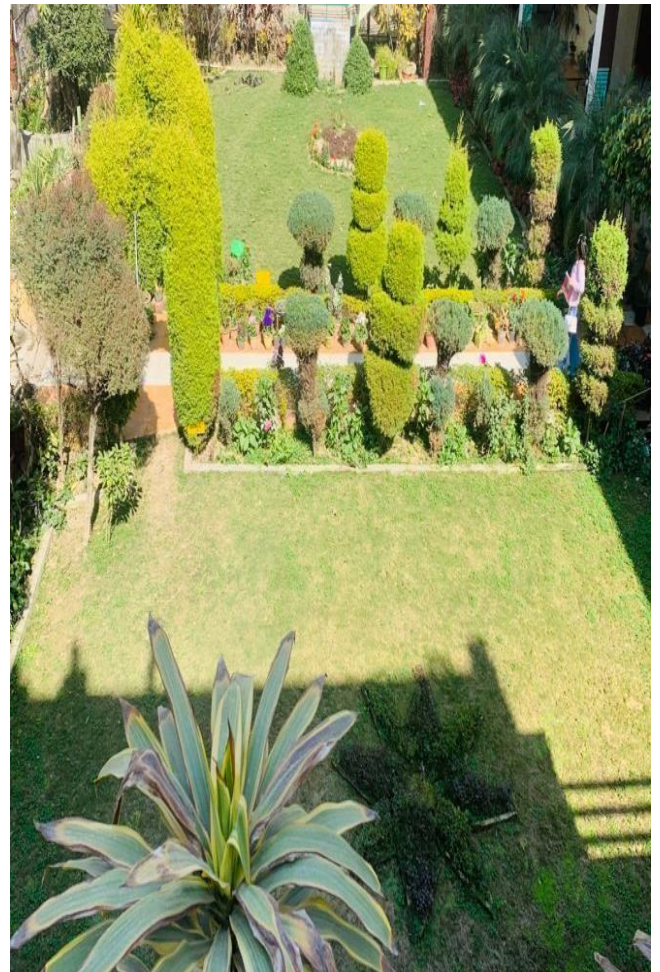
#	Assessment Criteria	Points	Grade	Remarks
a.	33% and above	10	A+	
b.	22% -32%	8	A	
c.	17% - 21%	6	B+	
d.	11%	4	B	
e.	Less than 11%	3	C+	
d.	No green cover	0	C	

Add Random Pictures and paragraphs of the work





WGS84 32.12331, 75.46624 Δ m \pm 3m 273 Δ °:T \pm 21 S169
 \pm 5m



SSM College is a campus where environmentally friendly practices and education work together to promote sustainable and eco-friendly practices. The institution is spread over **5.2 acres** and majority of the area is covered by greenery that provides more than sufficient green space. Campus is having **536.46 sq m** green cover in its campus comprising **104** trees, medicinal plants, shrubs & herbs. Campus tree cover – **536.46 Sq.**

Total list of campus plant species identified

https://drive.google.com/file/d/1T9OQ6tHHOXKrqzGwVdp6uysWfJhknqm8/view?usp=share_link

Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. In one year, a single mature tree will absorb up to 48 pounds of carbon dioxide from the atmosphere, and release it as oxygen. The amount of oxygen released by the trees of the campus is good for the people in the campus. So while you are busy studying and working on earning those good grades, all the trees in campus are also working hard to make the air cleaner for you.

Campus has taken initiatives to reduce impervious surfaces being exposed to sun, to minimize impact on microclimate in the campus. Green Landscaping with Trees and Plants - The college is exquisitely landscaped and has won **numerous certificates** in recognition of its beauty. We believe that greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling programme.

The campus has undergone **Green Audit** and won **Platinum Award** for the exceptional contribution to this field.



2. Surface Water Harvesting

#	Assessment Criteria	Points	Grade	Remarks
a.	80%	10	A+	
b.	70%	7	A	
c.	60%	6	B+	
d.	50%	5	B	
e.	Less than 50%	4	C+	
f.	No surface water harvested	0	C	

Add Random Pictures and paragraphs of the work





At SSM College, water conservation is practiced at various levels, including rainwater harvesting, water recycling for gardening, and many other methods. The source of water used in the college are two wells present in the campus. These wells use to recharge with rainwater from the roof. A total of 18000L of water is pumped out from the well every day. The groundwater level is recharged by collecting and storing the rainwater that runs off in the college regions. The most effective way to capture unwanted runoff and enhance groundwater recharge is through water harvesting. After neutralization waste water is kept in a large covered pit. On campus, with the right instructions and technology, efficient and high-quality rainwater harvesting systems meet all water requirements and store water for later use. The major goals of surface runoff rainwater harvesting are to meet the water demand that is constantly growing, to lessen water pollution, land erosion, and road floods.

3. Rooftop Water Harvesting

#	Assessment Criteria	Points	Grade	Remarks
a.	80%	10	A+	
b.	70%	7	A	
c.	60%	6	B+	
d.	50%	5	B	
e.	Less than 50%	4	C+	
f.	No Rooftop rainwater harvested	0	C	

Add Random Pictures and paragraphs of the work





SSM College has facility for Rainwater Harvesting in the campus to enhance ground water table. Average normal Rainfall during the Monsoon in the campus is 200mm and College captures maximum run off volume of rain water from roof & non-roof area and stores it in underground water storage. College also maintains water quality by analyzing physio-chemical parameters including acidity, alkalinity, chloride, pH level etc. The water from rooftops is collected through down pipes by pipe lines on campus and discharged in the ground as well as in recharge pits near bore wells. The runoff from the terrace of the college building is channelized into a recharge bore located near the commerce block to store the water. The stored water is used for gardening. Rainwater falling on a building's roof is

diverted, recharged, or stored using a technique called roof-top rainwater harvesting (RRH). Making water available for future use, enhancing the quality of ground water, and other goals are the primary goals of rooftop rainwater harvesting. The college has taken all necessary measures to implement waste water management /rain water harvesting.

4. Rooftop Solar System

#	Assessment Criteria	Points	Grade	Remarks
a.	Contribution to grid after use	10	A+	
b.	100% self-dependent	8	A	
c.	75% self-dependent	6	B+	
d.	60-69% self-dependent	5	B	
e.	50% and below self-dependent	0	C+	
f.	No solar power	0	C	

Add Random Pictures and paragraphs of the work





SSM College practices continuous monitoring of energy uses manually, that maintains judicious use of energy and inspire students and teachers to save the energy in their day to day uses. SSM College is having On-site 12 KW Solar Power Plant as source of Renewable Energy that contributes towards green source of energy. College also encourages its student community to save energy to minimize environmental impacts of using fossil fuels. Garden lights that work through solar energy. In SSM Campus, especially in hostels solar water heaters are used. By Using, solar water heaters,it is possible to reduce energy use and the associated cost. Such system does not depend on fossil fuels and takes energy from the sun to heat stored water. It, therefore, saves money, which is a major advantage of solar heating systems. Also, it does not pollute the environment.

Apart from these initiatives the college has undergone Energy Audit and received good remarks from the authority on this metric.

Certificate

ENERGY AUDIT

Academic Year 2019 - 2022



This is to certify that

SWAMI SWATANTRANAND MEMORIAL COLLEGE

Dinanagar, Punjab

has achieved the energy uses standards for the learning spaces
with least impact on environment during the
Green College Audit - 2019-22.

This Certificate is issued on the bases of Green University Audit Report 2019-22



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www.greenmentors.in

Virendra
05-01-2021

Virendra Rawat
Director, Green Mentors

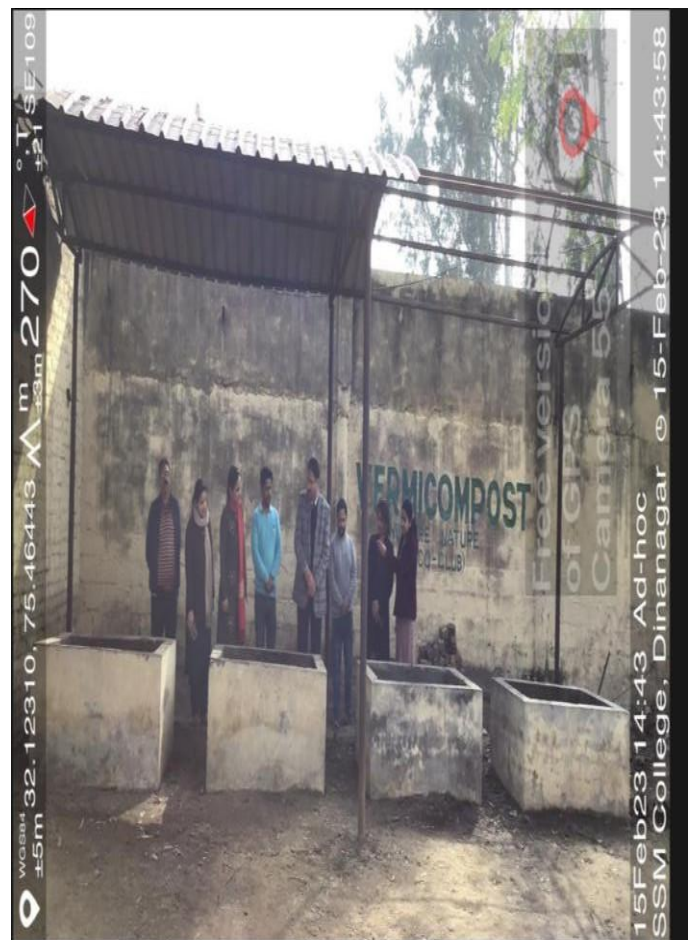
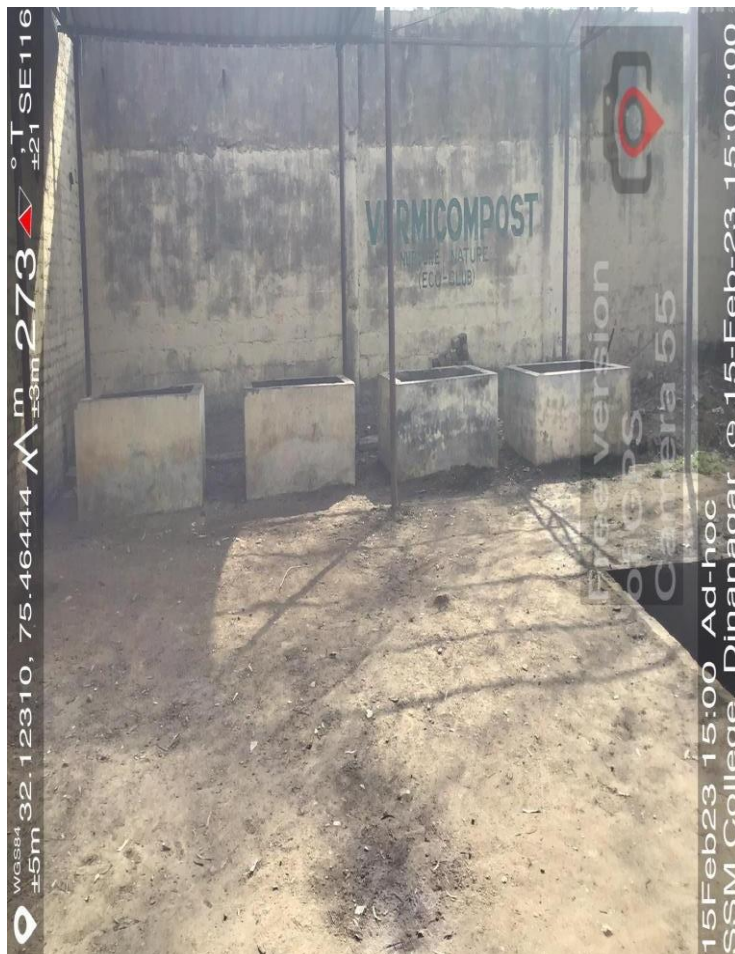


GM/EYA/2022/03

5. Waste Management

#	Assessment Criteria	Points	Grade	Remarks
a.	100% waste recycled and managed	10	A+	
b.	75% waste recycled	7	A	
c.	50-75% waste recycled and managed	5	B+	
d.	Below 40-49% waste recycled and managed		B	
e.	Below 40% waste recycled and managed		C+	
f.	No waste managed and no waste recycled		C	

Add Random Pictures and paragraphs of the work







Waste Segregation Mechanism is well placed at SSM College. Waste is Segregated at the source and sent to recycling and composting sites in the safe manner, that prevent the waste being sent to land-fills. The Campus is having its own Composting & vermin composting pits that makes waste into resource and prevents the waste being sent to land-fills. Vegetable waste and other leaf litters were used to feed in the vermin-compost pit and the resulting vermin-cast is used as manure in the garden. The waste is collected every day and is transported to sanitary landfill site of the institution every day. The composted waste is used for gardening and agriculture. Recycling bins are kept at different locations of the college academic block, lab block, and computer centre and at hostels with a view to conserve energy, help the environment, reduce pollution, slow global warming, and lower waste products in landfills. Additionally, the college has built a sewage treatment facility in its ground with the intention of recycling all waste water produced there. The chemicals from the laboratories are disposed in a sealed tank along with water, so that the chemicals undergo neutralization with the water. Along with this, e-waste is also managed properly in the institute.

Different types of waste generated in the college and their disposal

Types of waste	Particulars	Disposal method
E-Waste	Computers, electrical and electronic parts	Direct selling
Plastic waste	Pen, Refill, Plastic water bottles and other plastic containers, wrappers etc	Direct selling
Solid wastes	Damaged furniture, paper waste, paper plates, food wastes	Reuse after maintenance energy conversion
Chemical wastes	Laboratory waste	Neutralize with water
Waste water	Washing, urinals, bathrooms	Soak pits
Glass waste	Broken glass wares from the labs	Direct selling
Sanitary Napkin	-	Napkin Incinerators

Any other activity regarding these above parameters

Swachhta Engagement







Water Harvesting



Best out from waste material







Social Entrepreneurship Engagement





[Video Clip of this Visit](#)

https://drive.google.com/file/d/1SMumkpxrmzQ44Ijm2IY9l1zv5n9IoYgf/view?usp=share_link