



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

Alternate sources of energy and energy conservation measures

Solar Energy

The institute has taken an important step for the reduction in pollution levels by installing solar panels and photo-voltaic cells for generating electricity. To reduce carbon emissions, and dependence on fossil fuel, the institution has resorted to using green energy by harnessing solar power. This helps in reducing carbon emissions.

The combined generation capacity is 10 KVA.



Fig. 1. Solar panel



Fig. 2. Solar Panel



**Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103**



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

Management of the various types of degradable and non-degradable waste

To achieve effective and sustainable implementation of the proper waste management practices the teaching and non-teaching staff of the Institute, as well as the students, are routinely informed and educated on waste management by organizing lectures, creating posters and slogans, and other pertinent activities. This helps to maintain a clean campus and regular disposal of various wastes. The actions listed below are being carried out:

Solid Waste Management

The college has hired a few dedicated housekeeping staff members to collect the waste materials every day. The institute focuses on the entire spectrum of waste collection, segregation, reuse, recycling and disposal. To establish effective solid waste management, dustbins are located in various locations on the institute campus and designated with distinct colours to facilitate the collection of various types of waste (Dry waste, Wet waste, E-waste). Recycled materials such as plastics, newspapers, cartoons, and other materials are routinely turned in through the appropriate procedures. The institution has started an initiative to create Compost from food waste from various items that come from the campus canteen and use the Compost in the college's gardens. The objectives of this project are:

- Identify the existing challenges and obstacles in converting food waste into compost.
- Analyse the physical and chemical characteristics of food waste to understand its composting potential.
- Investigate the effects of different bulking agents on the quality and efficiency of compost production.
- Evaluate the quality of the produced compost by analysing parameters such as nutrient content, stability and maturity.
- Assess the environmental impact of food waste composting through the application of environmental impact assessment (EIA) and life cycle assessment (LCA) methodologies.
- Provide recommendations and guidelines for optimizing compost production from food

Waste, based on the findings of the study.



Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org



Fig. 3. Biodegradable bin



Fig. 4. Non-Biodegradable bin

This project also focused on recent trends in optimizing compost production from Food Waste, specifically in the case of turning Food Waste into compost on the college campus. The physicochemical characteristics of Food Waste were discussed, highlighting the challenges faced in the composting process, such as high moisture content and low carbon-to-nitrogen (C/N) ratio. Various bulking agents were explored to improve the quality of compost, including biochar and dry leaves, which showed positive effects on thermophilic temperature, organic matter degradation, and nutrient concentration. Furthermore, this project is highlighting the importance of conducting Environmental Impact Assessment (EIA) and Life Cycle Assessment (LCA) studies to evaluate the sustainability of composting processes. These studies help assess the environmental impacts and emissions associated with different composting technologies, enabling informed decision-making and scaling up of composting methodologies.

Liquid Waste Management

The concealed wastewater lines from the washrooms of the college are connected to the primary drainage system. Areas such as walkways, car parks, and playgrounds all are quickly drained through a Proper drainage system. The chemical wastes from different laboratories of the college are properly disposed of through concealed pipes.

E-Waste

The E-waste (empty toners, cartridges, scrap monitors, CPUs and other electronic pieces of equipment) is regularly collected, and stored in a proper place for recycling or disposal. Old accessories are repaired by institute technicians and reused.





Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



Fig. 5. Scrap monitors and CPUs



Fig. 6. other electronic pieces

Water conservation

Water conservation facilities available in the Institution:

1. Rainwater harvesting
2. Construction of tanks
3. Maintenance of water bodies and distribution systems on the campus

1. Rainwater Harvesting

Rainwater harvesting is a sustainable practice that involves collecting and storing rainwater for later use. This method contributes to water conservation, particularly in regions facing water Scarcity. The process typically includes the installation of catchment systems, such as rooftops or Surfaces, to collect rainwater, which is then directed to storage tanks or Underground reservoirs. Besides serving as an eco-friendly water source for various purposes like irrigation and domestic use, rainwater harvesting helps reduce pressure on traditional water supplies and mitigates the Impacts of urban runoff. The institution has installed a rainwater harvesting system to ensure the supply of groundwater. The most sensible and affordable approach to using rainwater harvesting is to tap into water Supply. It prevents water shortages on campus. The institute campus has rainwater collection Systems. Rainwater harvesting is done at several points throughout the campus. The rainwater Gathering tanks were built according to industry standards. All open terraces are



Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

equipped with Rainwater collection pipes that are routed to the ground via planned drains. Drainage from the Entire building flows to the lower floor via an exterior drain.

Recharge wells and rainwater collection structures are installed in various areas throughout the College campus. Every building can collect rainwater. Within the campus area, there are two percolation ponds. Rainwater gathered from the Civil Engineering block is held 4100x3900 mm tank with a capacity of 10000 litres.

2. Construction of tank

Percolation Pond: By employing a variety of techniques to collect rainwater and optimize water Use on campus, the Institute is poised to transform into a water-resilient institute. 12m x 10m Percolation Pond is located on the college campus for storage of rainwater.




Fig. 7. Rain Water Storage Tank

3. Maintenance of water bodies and distribution systems on the campus

Maintenance of water bodies and distribution systems is vital to uninterrupted water supply and the Overall well-being of the community. Regular checks on pipelines, storage tanks and purification Systems should be conducted to identify and address potential issues promptly. Proper cleaning of Water bodies, like ponds or reservoirs, ensures water quality, while efficient distribution system Maintenance prevents leaks and disruptions. Additionally, proactive measures such as water Shed protection and vegetation management around water bodies contribute to long-term Sustainability and water quality preservation.

Water conservation measures have been widely and successfully applied in a variety of facilities, Such as canteens, hostels, and academic blocks. The new facilities have spring-




Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

type, self-closing Faucets are installed, and the older ones are swapped out as needed. Blocks are given settings for Distributed storage systems based on their needs. The water is dispersed by a sturdy and well-built pipe network.

In addition, harvested rainwater is being used in the lawns and gardens to reduce water consumption on campus. Our civil and infrastructure team expertly manoeuvre the water



Fig. 8. Part of the RO unit



Fig. 9. Water tank



Fig. 10. RO unit

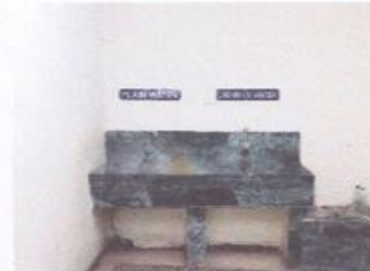



Fig. 11. Water Distribution point

distribution system to prevent leaks and waste from these facilities.

Reverse Osmosis Units are operational in each department with a processing capacity of 250 litres per Hour (LPH). The RO-treated water quality analysis is done periodically by an external vendor.




Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S., Narendrapur, Kol-103



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

Disabled-friendly, Barrier-free Environment


Built environment with ramps/lifts for easy access to classrooms

These facilities provide the essential function of allowing the user to wheel up the ramp safely and securely positioned on the ramp during transit. The institute has not had any students till now who are differently abled. If any student is admitted in the future, then our active management is ready to provide all the facilities. The college has the provision for installing a lift where disabled people can use facilities, relevant to these facilities the necessary documents are attached with the policy brochure.



Fig. 18. Ramp Rail




Principal
**Swami Vivekananda Institute of
Modern Science**
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

The college provides disabled friendly washroom:

With the help of the construction of facilities, the college has facilitated disabled-friendly washrooms in the specified place which is closer to the lift, staircase and classrooms. The washrooms carry fixtures and fittings that are comfortable and convenient for differently-abled people. Non-slip floors, sliding doors and grab bars provide easy accessibility for differently-abled people.




Fig. 19 and 20. Disabled friendly washroom



Fig. 21. Wheel Chair




Principal
**Swami Vivekananda Institute of
Modern Science**
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



**SWAMI VIVEKANANDA INSTITUTE
OF MODERN SCIENCE**

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

Ref. SVIMS/241/NC21/23

Date: 10/05/23

NOTICE

This is to inform all the students that an activity for TREE PLANTATION an initiative of nature club SVIMS will be held on the SVIMScampus, which is not only good for sustainable development and social benefit, but it will provide you valuable MAR point.

Venue: College Campus

Date: 18/05/23

Time: 3.20 PM to 05:00 PM


Apart from the above-mentioned time, all the other classes will continue as per the scheduled routine.

Students should enroll themselves before 17/05/23

Copy to:

1. Principal's Desk
2. All HODs
3. Notice Board




**Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S.-Narendrapur, Kol-103**



Green Campus Initiative for the academic year 2022-23

Date	18/05/2023
Place	SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE
No of Students Participated	35
No of Faculty Participated	20

The Green Campus Policy of the college envisions a Clean and Green Campus where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus and beyond the campus.

It also offers the institution an opportunity to take the lead in redefining its environmental culture through inspire environmental ethics among the students and staff.



Fig. 12. Tree Plantation Program



Fig. 13. Green Campus



Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S., Narendrapur, Kol-103



SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

Ref. SVIMS/241/NC24/22

Date: 11/05/22

NOTICE

This is to inform all the students that the activity for TREE PLANTATION an initiative of nature club SVIMS will be held in the SVIMS campus, which is not only good for sustainable development and social benefit, but it will provide you valuable MAR point.

Venue: College Campus

Date: 19/05/22

Time: 3.20 PM to 05:00 PM

Apart from the above-mentioned time, all the other classes will continue as per the scheduled routine.

Students should enroll themselves before 18/05/22

Copy to:

1. Principal's Desk
2. All HODs
3. Notice Board

Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S.-Narendrapur, Kol-103





Green Campus Initiative for the academic year 2021-22

Date	19/05/2022
Place	SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE
No of Students Participated	30
No of Faculty Participated	15

The Green Campus Policy of the college envisions a Clean and Green Campus where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus and beyond the campus.


It also offers the institution an opportunity to take the lead in redefining its environmental culture through inspiring environmental ethics among the students and staff.



Fig. 14. Tree Plantation Program



Fig. 15. Green Campus


Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S.-Narendrapur, Kol-103





SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE

Sonarpur Station Road, Karbala
P.O. & P.S. - Narendrapur
Kolkata - 700 103
An ISO 9001:2008 Certified Institute

Affiliated to MAKAUT, WB
College Code: 264
Ph: 033-2428-3035
E-mail: info@svist.org
Website: www.svims.org

Ref. SVIMS/241/NC26/19

Date: 09/05/19

NOTICE

This is to inform all the students that the activity for TREE PLANTATION an initiative of nature club SVIMS will be held on the SVIMS campus, which is not only good for sustainable development and social benefit, but it will provide you valuable MAR point.

Venue: College Campus

Date: 16/05/19

Time: 3.20 PM to 05:00 PM

Apart from the above-mentioned time, all the other classes will continue as per the scheduled routine.

Students should enroll themselves before 15/05/19

Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S. Narendrapur, Kol-103



Copy to:

1. Principal's Desk
2. All HODs
3. Notice Board



Green Campus Initiative for the academic year 2018-19

Date	16/05/2019
Place	SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE
No of Students Participated	25
No of Faculty Participated	12

The Green Campus Policy of the college envisions a Clean and Green Campus where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus and beyond the campus.


It also offers the institution an opportunity to take the lead in redefining its environmental culture through inspiring environmental ethics among the students and staff.



Fig. 16. Tree Plantation Program



Fig. 17. Green Campus


Principal
Swami Vivekananda Institute of
Modern Science
Sonarpur Stn. Road, Karbala
P.S.-Narendrapur, Kol-103

