

Energy Policy (Usage Certificate)

As per the Indian Green Building Standards

Prepared by

External Expert: Ar. Nahida Abdulla

(ASSOCIAM GEM Certified Professional – Registration no. 22/718)

Greenvio Solutions

An environmental and architectural design consultancy (Socio-environ responsibility)

Motto: Developing Healthy and Sustainable Environments

greenviosolutions@gmail.com

Website: <https://thegreenviosolutions.co.in/>



Proposed for the prestigious

Maharashtra Shikshan Samiti's

Maharashtra Mahavidyalaya, Nilanga

Main Road, Nilanga, District Latur, Pin – 413521 (Maharashtra), India

Date of preparation of policy: 23 December 2023

Policy no: GV/ PL/ 12-23/ ZN-1

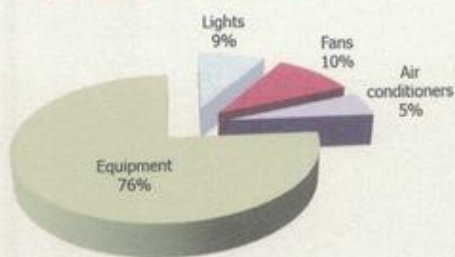
Energy Policy

DISCLAIMER – This policy has been prepared by team 'Greenvio Solutions' based on audit. The inferences are used as a base in formulating the policy. The implementation is dependent on Institutional capabilities. Thus, presented plan of action is a feasible document to be practiced by the stakeholders.

Policy statement

The said policy is applicable for the **academic year 2021-2022 and 2022-2023**. The study emphasizes on the existing consumption patterns, strategies adopted, and inferences that can improve power and utilization pattern.

Policy usage (Energy loads)



The calculated electrical load (power consumption) Of the premises is **2,05,883 kWh** (electrical study)

The adjacent graph shows **equipment consume 76%** whereas the **fans consume 10%** while the **lights consume 9%** and the **air conditioners consume 5%** of total calculated electrical energy.

Figure 1: Summary of the calculated electrical consumption

Policy objectives

- ⇒ Switch to alternate sources of energy consumption
- ⇒ Reduce the artificial electrical loads and utilize natural ventilation

Policy implementation

- ⇒ Increase the usage of energy through alternate sources such as wind mill or solar panels
- ⇒ **Reduce the lighting loads consumption of non-energy efficient appliance (Non-LED)** which stands at **8,051 kWh out of the 17,627 kWh consumed by lights** further replace the same with energy efficient appliances.
- ⇒ **Reduce the air conditioning loads consumption** which stand at **11,115 kWh**, further devise sources to utilize natural ventilation for comfort purposes.
- ⇒ **Reduce the conventional fans (Cooling) loads consumption** which stand at **19,947 kWh out of the 21,101 kWh consumed by fans** further replace the same with energy efficient appliances to make the premises a 100% energy efficient appliance premises.

Policy history

The AICTE Environment Policy 2020 was referred to draft this policy.

Environment Policy (Usage Certificate)

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Environment Policy

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Policy statement

The said policy is applicable for the **academic year 2021-2022 and 2022-2023**. The study helps to denote positive and negative aspects of the site context w.r.t. ecological parameters.

Policy motive (Green cover)

- ⇒ Undertake landscape work to entire site for stakeholders' experiential learning experience.
- ⇒ Beautification projects to involve foodscaping, landscaping for betterment of site.

Policy objectives

Regularize site context study through awareness placards, manuals and similar ways

Policy implementation

- ⇒ Increase **stakeholder sensitization** about:
 - Eco-sensitive zones in and around campus
 - First hand measure on local scale to improve the environmental ambience
 - Green practice initiatives for societal development
 - Invite organizations to educate masses about eco-friendly opportunities.
- ⇒ **Fire & Life safety practices** enhanced with cooperation of stakeholders and local government.
- ⇒ **Undertake green zone development activities in nearby villages.**
- ⇒ **Undertake research projects related to environment in nearby villages along with government interventions.**

Policy history

The Indian and International Green Building Standards were referred to draft this policy.

Green Building Management Policy

As per the Indian Green Building Standards

Prepared by

External Expert: Ar. Nahida Abdulla

(ASSOCHAM GEM Certified Professional – Registration no. 22/718)

Greenvio Solutions

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Maharashtra Mahavidyalaya, Nilanga

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Date of preparation of policy: 23 December 2023

Policy no: GV/ PL/ 12-23/ ZN-3

Green Building Management Policy

DISCLAIMER – This policy has been prepared by team 'Greenio Solutions' based on audit. The inferences are used as a base in formulating the policy. The implementation is dependent on Institutional capabilities. Thus, presented plan of action is a feasible document to be practiced by the stakeholders.

The said policy is applicable for the **academic year 2021-2022 and 2022-2023.**

- Take certain provisions for **Green Building parameters** to be implemented in a cost-effective manner through stakeholder intervention.
- **Social practices through green management** - Increase practical and virtual activities under social welfare and community development initiatives for the students and staff, develop oxi-breakout-green-water-waste-biodiversity zones in campus.
- **Water Management** - The water conservation measures of improving documentation of existing facilities, utilized energy efficient appliances shall be extended to nearby villages, sister institutes and implemented within the campus.
- **Waste Management** – Adequate measures shall be taken towards waste management through sensitization programs, and actual activities for students, nearby villagers.
- Join hands with local municipal corporations on local, regional, national and international level to develop substantial programmes, seminars, symposiums etc. for **community development** and beautification through eco-friendly techniques in campus and all over local villages majorly focusing towards foodscaping.
- Educate the students to undertaken initiatives for the **socio-environmental welfare** for nearby localities and adopted areas.



Memorandum of Understanding

About the

Sustainable and Healthy Institute Programme (SAHIP)

MOU NO: GV/ MOU/ SAHIP/ CL/ 12-23/ 07

Agreed on 23 December 2023 Valid till 30 November 2026

MoU duration for 3 years

(A Non-Commercial MoU intended towards Industrial Collaboration)

Initiated by

Greenvio Solutions

Registered Office – Naigaon, Palghar District, Maharashtra

greenviosolutions@gmail.com



Proposed for the prestigious

Maharashtra Shikshan Samiti's

Maharashtra Mahavidyalaya, Nilanga

Main Road, Nilanga, District Latur, Pin – 413521 Maharashtra

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Section 1 - About the programme

The aim of the program is to bridge the gap between theoretical practice and practical approach. It focuses to channelize efforts to identify loopholes in environmental parameters. The programme is been designed as a plan of action for gradual improvement in imparted service to the stakeholders.

Section 2 - About the parties involved

This Memorandum of Understanding (MOU) establishes a partnership between:

Party 1 - Greenvio Solutions is registered as an Environmental and Architectural Design Consultancy firm based in Maharashtra partnering as '**Corporate Organization**'

- Motto of Organization is "Developing Healthy and Sustainable Environments"
- Appointed Coordinator – Ar. Nahida Shaikh, Project Head & Resource Person

Party 2 – Maharashtra Mahavidyalaya, Nilanga partnering as '**Educational Organization**' an Educational Institute known for its high academic standards, qualitative growth and ethical practices.

- Vision of Organization is "To provide value based quality education and generate human resource equipped with contemporary skills."
- Appointed Coordinator – Dr. G. G. Shivshette, Associate Professor (Hindi)

Section 3 - Task for the execution

Both the parties agree to conduct a series of tasks for stakeholder benefit as follows.

- Environmental awareness programs – Seminars/ Webinars
- Sustainable premises initiatives – As per the requirement

The parties agree to the following tasks for this MOU:

Party 1 - Greenvio Solutions

- Provide the services as per the discussion



Party 2 – Maharashtra Mahavidyalaya, Nilanga

- Assist in any logistical arrangement
- Communicate and follow up with the team
- Document the projects and prepare „Action Taken Report“
- Coordinate regarding the scheduling and arranging the programme
- Update the Institutional website and media handles about the programme

Section 4 - Financial Aspects

Each financial deal will be mutually offered and agreed upon individually. The payment conditions shall be 50% advance before the project commences and 50% balance once completed.

Section 5 - Duration of the MoU

The term of this MOU is for a period of 3 years from the effective date of this agreement and may be extended upon written mutual agreement.

Either organization may terminate this MOU upon thirty (30) days written notice without penalties or liabilities.

Section 6 - Officiating the MoU

Ar. Nahida Abdulla Shaikh

Project Head & Resource Person

Greenvio Solutions - Sustainable Academe

Palghar – 401208

Party 1 - Corporate Organization



Dr. M. N. Kolpuke

Dr. M. N. Kolpuke

Principal

Maharashtra Mahavidyalaya, Nilanga

Main Road, Nilanga, District Latur,

Pin – 413521 (Maharashtra)

Party 2 - Educational Organization

Evidence documents for Site visit of external audit team

Audit team headed by external expert - Ar. Nahida Abdulla
Accredited & Certified Green Building Professional, ISO IA (IMS)
Audit objective: Green Building up gradation of the premises

Audits covered: Green audit Energy audit Environment audit

Institute: Maharashtra Mahavidyalaya, Nilanga Date: _____

Document objective: Induction Meeting attendance sheet

S. No.	Name	Committee	Designation	Signature
1.	Mrs. F. A. Shaikh	External	Project Coordinator	
2.	Ar. Nahida Abdulla	External	Project Head	
3.	Dr. D. S. Choudhari	Internal	IQAC Coordinator	
4	Dr. N. S. Pinamkar	— " —	IQAC Co-coordinator	
5)	Dr. G. G. Shivshankar	— " —	Co-coordinator	
6-	Prof. G. P. Shende	- + -	Committee member	
7	Dr. Suryakant R. Wakle	- + -	Committee member	
8.	Dr. Gopal L. Moshe	- " -	Staff Member	
9)	S. G. Kulkarni	"	Staff member	
10.	Dr. A. M. Mulajkar	- " -	Criterion-III - Coordinator	
11.	Dr. Hansraj Bhosale	- " -	Criterion I co-ordinator	

Signature & round seal

Name: Dr. M. N. Koptike

Designation: Principal

For the said Institute



Signature & round seal

Name: Mrs. F. A. Shaikh

Designation: Project Coordinator

For The Greenvio Solutions



Evidence documents for Site visit of external audit team

Audit team headed by external expert - Ar. Nahida Abdulla
Accredited & Certified Green Building Professional, ISO IA (IMS)
Audit objective: Green Building up gradation of the premises

Audits covered: Green audit Energy audit Environment audit

Institute: Maharashtra Mahavidyalaya, Nilanga Date: 23/12/2023

Document objective: Inferences of the Site visit

Observations (Positive aspects)	Suggestions (Improvement aspects)
Green Audit	
<ul style="list-style-type: none"> - Ground water recharge is practised - Chemical waste managed well. 	<ul style="list-style-type: none"> - Documentation of reflectance has to improve - Waste management general practices should improve
Energy Audit	
<ul style="list-style-type: none"> - Renewable energy sources are available - Certain spaces have smart LED appliance. (class room) 	<ul style="list-style-type: none"> - Scope to replace non-efficient appliances - Ventilation aspects can be improved
Environment Audit	
<ul style="list-style-type: none"> - Hundreds of plantations all over - pollution-free atmosphere there 	<ul style="list-style-type: none"> - Documentation of reflectance has scope for improvement

Signature & round seal

Name: Dr. Nilanga N. Kolpuke

Designation: Principal
For the said Institute



Signature & round seal

Name: Mrs. F. A. Sheikh

Designation: Project Coordinator

For The Greenvio Solutions





Out. No. MMN/2023-24/3337

Date: 23/12/2023

To,

Ar. Nahida Shaikh

Project Head and Resource Person,
Greenvio Solutions- Sustainable Academe,
Maharashtra

Appreciation and Experience Letter
For the (Student/ Faculty) Development Programme titled
"Elements of Green Building"

Respected Ar. Nahida Shaikh and Team,

I, on behalf of the Maharashtra Mahavidyalaya, Nilanga fraternity, appreciate your endeavor as an appreciated and valuable Resource Person in the "Elements of Green Building" conducted between 23.12.2023; organized as a (Student/ Faculty) Development Programme by the Department of Internal Quality Assurance Cell, Maharashtra Mahavidyalaya, Nilanga Dist. Latur of our institute based on the MoU () with your organization. The programme was designed as follows:

Date, Timing : 23.12.2023 (10.00 am to 11.00 am)
Sessions (Total Nos) : 01
Mode : Offline
Audience :

About the Course:-

We were enlightened and delighted to have you as the resource person of the session. The participants were benefitted by your expertise in the field. We feel grateful for sharing your knowledge with us.

About the Project Head – Ar. Nahida Shiakh:-

The resource person Ar. Nahida Shaikh has imparted her knowledge expertise with an interactive manner. Her skills are unique in explanations and elaborating on the technical jargons. The session was very successful.



(Dr. M. N. Kolpuke)

Principal

Maharashtra Mahavidyalaya
Nilanga-413521 Dist.Latur



Out. No. MMN/2023-24/ 8337

Date: 23/12/2023

To,
Ar. Nahida Shaikh
Project Head and Resource Person,
Greenvio Solutions- Sustainable Academe,
Maharashtra

FEEDBACK AND EXPERIENCE

Respected Ar. Nahida Shaikh and Team,

I, on behalf of the **Maharashtra Mahavidyalaya, Nilanga** fraternity, admeasuring (Built-up area in sq. m.2679.17 sq. m.) located at Nilanga Dist. Latur (MS) appreciate your endeavor as an Organization for the project (Inform audits conducted Green/ Energy / Environment/ Access/ Water) of our institute between (23.12.2023 one day)

Quality	: Excellent
Approach of the service	: Excellent
Process of conducting project	: Very Efficient
Techniques	: Very Appropriately Excellent.

About the consultancy firm – Greenvio Solutions :-

The Greenvio Solutions has carried out the Green Energy and Environment Audits in an efficient manner. The overall coordination of the process was smooth. The audit was conducted taking into actual all the aspects of it. The on-field visit of the team has verified the mechanisms of energy savings and green initiatives by our institution.

About the Project Head – Ar. Nahida Shiakh :

We are glad to mention that the Project Head Ar. Nahida Shaikh has is an efficient and highly professional auditor as the project head. Her expertise in the field is awe generating.



(Dr. M. N. Kolpuke)

Principal

Maharashtra Mahavidyalaya
Nilanga-413521 Dist.Latur