



Vaish College, Bhiwani

(Affiliated to Chaudhary Bansi Lal University, Bhiwani-Haryana)



Assessment Period: 2018-2023

Supporting Document: 7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

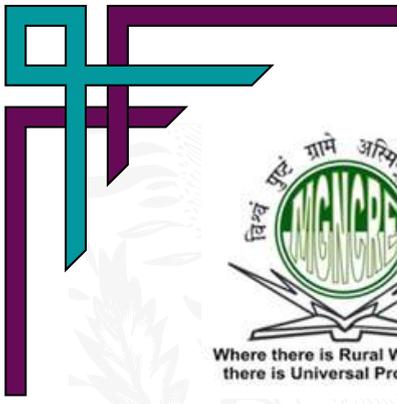
1. Green audit/ Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environment promotion activities



Vaish College, Bhiwani

- Policy document on environment and energy usages Certification from the auditing agency.


Principal,
VAISH COLLEGE
BHIWANI



विश्वं ग्रामे अस्मिन् आसिम्
Where there is Rural Wellbeing
there is Universal Prosperity



वशुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE



सत्यमेव जयते
Ministry of Education
Government of India

Certificate of Accreditation

This is to certify that
Vaish College, Bhiwani, Haryana
graded as

Parameters	Green Cover on campus	Surface Water Harvesting	Rooftop Water Harvesting	Rooftop Solar System	Waste Management
Grades	A	A	A	A	A

for the academic year of 2022-23 in Phase 1 of the
National Rural Institutions Sustainability Grading (NRISG)

Nagalakshmi.

Date: 15/5/2023

Member Secretary

Mahatma Gandhi National Council of Rural Education
Department of Higher Education Ministry of Education
Government of India

Certificate NO: MGNCRE/NRISG/01



VAISH COLLEGE, BHIWANI

(Affiliated to Ch.Bansilal University, Bhiwani)

Ref. No. *Sp/VC/2/2019*

Date *3rd March, 2019*

Policy Document On Green and Clean campus

Introduction:-

Vaish College, Bhiwani is always committed to follow the rules of nature according to the resources available to the Institute for proper management of its waste generated within the premises as well as to maintain its greenery. The concept of green campus offers an opportunity to take steps measures to redefining the paradigm by creating sustainable progress. Greening and beautification of campus is all about to manage its waste (Biodegradable and non-biodegradable), its proper disposal and using environmental friendly conventional method or sources of energies to meet its daily need. The Institute is also committed to follow all the government of India's as well as Government of Haryana's resolutions to ban and ensured to check the applicability within the campus.

Vision:-

To be known as the Institute having capacity to transform the system through continual innovations and implementation of environmental friendly policies for sustainable development in the domain of higher education institutes, simultaneous to make the campus and its surroundings clean, green and eco-friendly.

Mission:-

To create environmental awareness among the students and society and to encourage them to participate in activities to protect nature and natural resources for sustainable progress to meet presents needs without compromising future requirements.

Objectives:-

- ❖ To instil the importance of nature and natural resources.
- ❖ To integrate environmental concerns into policies, plans and programme.
- ❖ To sensitize the students and society regarding environment and environmental issues.
- ❖ To protect and conserve ecological resources.
- ❖ To ensure judicious use of natural resources.
- ❖ To make campus environment clean, green and beautify.
- ❖ To reduce, reuse and recycle the waste.

Rch

The Policy:-

“Green and Clean campus” refers to the place where environmental friendly practices and education combine to promote sustainable and eco-friendly development in the campus.

- The Institute shall be committed to manage the campus premises clean and green by establishing various committee/cell/boards.
- The Institute shall also abide to directions and guidance given by Government of India and Haryana Government.
- Institute shall strictly follow all the practices and ban laid down by ministry of Environment.
- Institute shall take initiatives to minimize its energy consumption and will shift to conventional sources of energy.
- The Institute shall ensure to clean the water tanks regularly.
- The Institute shall ensure to clean potable water supply within the campus.
- The Institute shall ensure complete ban on single use plastic within campus.

Committee/cell/Board for Green and Clean campus:-

- **Water and Electricity Committee:-**
 - There shall be a **Water and Electricity Committee** to manage water and electricity related issue. The principal shall be ex-officio chairman of the committee and a senior member shall be its convener. The committee shall suggest the measure to reduce and minimize energy requirement.
- **Green and campus beautification Committee:**
 - There shall be a **Green and campus beautification committee** to manage the plantation and greenery of campus. The committee shall ensure to landscaping the plant and trees according to season and climatic conditions. The committee shall also be deal with wisely disposal of waste.

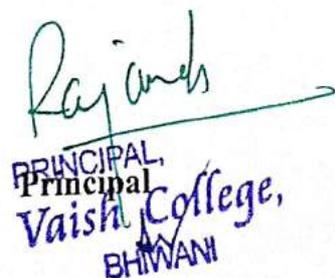
The Institute shall also take the measures to proper display of the policy. The policy shall be displayed at prime locations and institutional website.



IQAC-Coordinator



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Principal,
Principal,
Vaish College,
BHIWANI





VAISH COLLEGE, BHIWANI

(Affiliated to Ch. Bansilal University, Bhiwani)

Ref. No. *SP/20/1/2022*

Date *31st January, 2022*

Supplementary Policy on Green and Green campus (Ban of Plastic within the campus)

The Policy:-

- The Institute ensure that **Plastic waste management amendment Rules, 2021**, notified by Ministry of environment, forest and climate change (MOEFCC) shall strictly be followed in campus.
- The Items banned under the above mentioned rules shall not be allowed to use in Institute premises.
- The Institute shall undertake awareness program for all stakeholders regarding reduce, reuse and recycle of plastic.
- The institute shall display the gazette notification of plastic waste management act on prime locations and institutional website with policy document.
- The Institute shall reduce the use of packaged items, plastic bags and water bottles.
- Institute will make proper arrangement for disposal of plastic waste generated.
- Plastic waste will be segregated as recyclable and non-recyclable.

[Signature]
IQAC-Coordinator

[Signature]
Principal
PRINCIPAL,
Vaish College,
BHIWANI





Vaish College, Bhiwani

Internal Energy Audit Report 2022-23

Committee: -

- | | |
|---------------------------|--|
| 1. Dr. Sanjay Kumar Goyal | Principal |
| 2. Dr. Krishan Kumar | Convener IQAC |
| 3. Dr. Manish Kumar | Coordinator IQAC-NAAC |
| 4. Dr. Mohan Lal | Convener Electricity and water Committee |
| 5. Dr. Anil Kumar Sharma | Member |
| 6. Dr. Pawan Kumar Gupta | Member |
| 7. Sh. Kamal Bhardwaj | Member |
| 8. Sh. Rambhool | Member |

The Institute

Vaish College Bhiwani is one of the oldest and premier institutions of Haryana and it is situated in the heart of the city. The college was founded in year 1944 by the munificent and visionary philanthropists, of that time for the educational upliftment of the society. This college is a multifaceted co-educational institution, affiliated to Chaudhary Bansi Lal University, Bhiwani. It offers diverse courses arts, science and commerce at UG level, along with certain UG and PG professional courses such as BBA, BCA, APGDCA, M.Sc Math, M.Sc Computer Science, etc. It has excellent infrastructural and instructional facilities. Experienced and well-qualified faculty and meaningful education to the students by blending the modern technological tools of the 'Western World' with the rich traditional value and cultural ethos. Academic staff of the college has significant knowledge.



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Vaish College, Bhiwani

Vision

The Institute established an internal Committee to audit the energy consumption within the college premise. The Institute always tried to find alternative sources to meet their energy consumption. In this regards energy audit gave an opportunities to improve the energy efficiency of the Vaish College, Bhiwani.

The committee is tracing the monthly consumption of electricity and bills paid in this regards and trying to identify the energy consumption pattern and reasons where energy is wasted. The work of committee comprehends the area wise energy consumption and analyse it. There is Water and electricity committee which take care energy and water related issues in the campus.

The aim of this audit is to reduce energy consumption despite improving the comfort of students with respect to health and safety.

The Practice and Suggestive Measures:-

There were five meters in the college which were installed a long back the committee suggested to integrate all of them in to single meters so that energy loss could be minimized and in the session 2021-22 it was done. Further the Committee suggested some measures to reduce energy requirement and bills.

- The On-Grid solar energy power plant was installed having a capacity of 50 kwh which not only reduced the monetary burden on the college but also provide a safe and alternative energy source.

- Old ceiling fans consuming high energy were replaced by new low energy consuming fans
- Simultaneously the Committee recommended replacing traditional tube lights and bulbs with low energy consuming LED tube lights and bulbs and same was accepted and done.
- Regular monitoring and maintenance of all electric appliances and equipments.
- Displaying of placard displaying “**Switch-off electric appliances when not in use**” at prime locations.

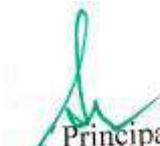
The energy consuming appliances and equipment’s in the Institute:-

Name of article	Quantity	Power Consumption capacity
Ceiling Fan	411	50watt
LED Tube light	424	18watt
Exhaust Fan 9’’	15	450watt
Exhaust fan 12’’	07	900watt
Wall Fan	20	40watt
Water Cooler	05	1550watt
Water Motor	06	01HP
LED TV	11	100watt
Fridge	8	150watt
Panel Light	54	20watt
LED bulb	68	9watt
ACs 1.5 ton	30	1200watt
AC 2 ton	02	2000watt
Street light	08	100watt
Street light	08	35watt

There are some electronic/electric instruments used in various labs viz. Physics, Chemistry, Botany, zoology and Psychology during practical and their consumption of energy is not much significant.

Power supply Bank:-

- ❖ **DHBVN Sub-station having capacity of 49KVAR**
- ❖ **On-grid Solar energy system having capacity of 45KVAR**
- ❖ **Two generator set having capacity of 50KVAR and 40 KVAR**


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The Energy Audit analysis:-

▪ Summary of Energy consumption and amount paid Bills:- :-

To analyze the energy consumption the committee collected the bills paid against the energy consumption during the last five years and compiled the data.

Session 2018-19

Month	Amount paid	Remarks
June 2018	103869	
July	55466	
August	75130	
September	63066	
October	34178	
November	80447	
December	22409	
January 2019	291328	
February	27528	
March	19279	
April	26776	
May	31618	
Total	900547	

Session 2019-20

Month	Amount paid	Remarks
June 2019	69541	
July	71391	
August	37789	
September		Bill Not Received
October	39746	
November	7767	
December	13799	
January 2020	134902	
February	21822,	
March	6710	
April		Bill Not Received

May	18926	
Total	499437	

Session 2020-21

Month	Amount paid	Remarks
June 2020	146589	
July	75239	
August	28547	
September	46266	
October	34778	
November	26994	
December	11682	
January 2021	23388	
February	25194	
March	14784	
April	39965	
May	22487	
Total	353009	

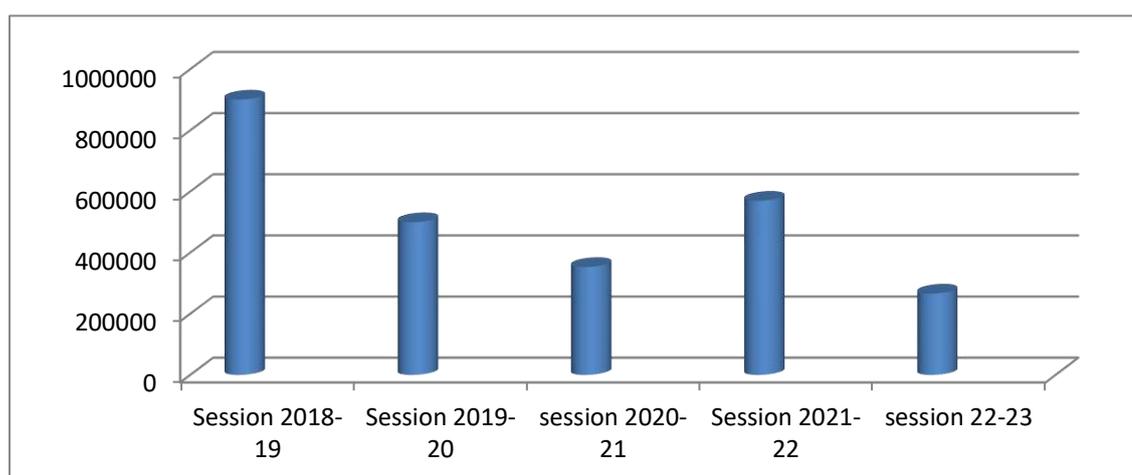
Session 2021-22

Month	Amount paid	Remarks
June 2021	4535,	
July	133344	
August	27567	
September		Bill Not Received
October	78720	
November		Bill Not Received
December	64183	
January 2022	32456	
February	34179	
March	32816	
April		Bill Not Received

May	32036	
Total	569680	

Session 2022-23

Month	Amount paid	Remarks
June 2022	95323	
July	86263	
August		Bill Not Received
September	48201	
October	85572	
November	13066	
December	6439	
January 2023	6653	
February		Bill Not Received
March	6009,	
April	6653	
May	8129	
Total	266089	



A Comparative Chart of annual Electricity Bills Payments

Observations and Outcome:-

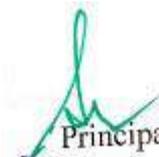
It is clear from the bar diagram that the annual charges declined progressively from session 2018-19 to 2022-23 due to implementation of measures suggested by the committee. The increase in annual charge in session 2021-22 may be due to inclusion of charge and fees for integration of all existing meter in to one.

Analysis:-

It is clear from the above audit that the implementation of suggestive measure has given positive outcome and Institute got benefitted from them.

Suggestions:-

There should be regular monitoring and maintenance schedule of all electric appliances. The appliances which are out-dated or very old more than 5 years should be replaced by energy efficient one.



Principal
Principal,
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Placards "Switch-off electric appliances not in use"



Use of LED Tube lights in Labs



Power-Bank of Solar Power Plant



Solar Power plant



Generator Set

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Principal,
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BHIWANI



(Dr. Sanjay Kumar Goyal)



(Dr. Krishan Kumar)



(Dr. Manish Kumar)



(Dr. Mohan Lal)



(Dr. Anil Kumar Sharma)



(Dr. Pawan Gupta)



(Sh. Kamal Bhardwaj)



(Sh. Ram Bhoor)



Principal
VAISH COLLEGE
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