



**Green Audit Report  
Arvindbabu Deshmukh Mahavidyalaya  
Bharsingi, Dist. Nagpur Year-2021-22**



**GREEN AUDIT REPORT  
CONSULTATION**



**Arvindbabu Deshmukh Mahavidyalaya  
Bharsingi, Tah. Narkhed, Dist. Nagpur  
Year-2021-22**

PREPARED BY

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(2021-22)



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**Bharsingi, Dist. Nagpur Year-2021-22**



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## **ACKNOWLEDGEMENT**

**Empirical Exergy Private Limited (EEPL), Indore (M.P.)** takes this opportunity to appreciate & thank the **Arvindbabu Deshmukh Mahavidyalaya, Bharsingi, Dist. Nagpur** for giving us an opportunity to conduct green audit for the college.

We are indeed touched by the helpful attitude and co-operation of all faculties and technical staff, who rendered their valuable assistance and co-operation the course of study.



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## Audit Team

The study team constituted of the following senior technical executives from **Empirical Exergy Private Limited,**

- ✚ **Mr. Rakesh Pathak,** [Director& Electrical Expert]
- ✚ **Mr. Rajesh Kumar Singadiya** [Director & Accredited Energy Auditor AEA-0284]
- ✚ **Mr. Sachin Kumawat** [Sr. Project Engineer]
- ✚ **Mrs. Laxmi Raikwar Singadiya** [Energy Engineer]
- ✚ **Mr. Charchit Pathak** [Mechanical Engineer]
- ✚ **Mr. Akash Kumawat** [ Jr. Engineer]
- ✚ **Mr. Ajay Nahra**[Sr. Accountant]
- ✚ **Mr. Mohan Choudhary** [ Sr. Electrician ]

## Green Monitoring Committee

STD : 07105 Ph : 233329  
NAAC Re-accredited with 'B' Grade  
VSPM Academy of Higher Education  
**ARVINDBABU DESHMUKH MAHAVIDYALAYA**  
BHARSINGI, Dist. Nagpur - 441305

Prakash Pawar  
Officiating Principal

Ref.No. : ADM/2022/346 Date : 13/09/22

**Energy, Environment & Green audit committee**

Energy, Environment & Green audit committee consist of following members.

| Sr. No. | Name               | Designation           |
|---------|--------------------|-----------------------|
| 1.      | Dr. P. D. Pawar    | Chairperson           |
| 2.      | Dr. M.M. Varma     | Convener              |
| 3.      | Dr. S. B. Thakare  | Member                |
| 4.      | Dr. S. P. Gudadhe  | Member                |
| 5.      | Dr. A. R. Gharpure | Member                |
| 6.      | Dr. A. L. Gadre    | Member                |
| 7.      | Dr. S. R. Bansod   | Member                |
| 8.      | Mr. S. R. Sinkar   | Member                |
| 9.      | Mr. B. B. Madhavi  | Member                |
| 10.     | Mr. C.B. Barapatre | Administrative Member |

This committee working period is for 03 year up to June 2024 and after that committee will be reconstructed.

  
Off. Principal  
Arvindbabu Deshmukh Mahavidyalaya,  
Bharsingi Dist. Nagpur


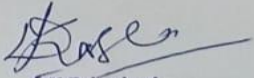
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## Integrated Policy

|  |  |               |
|--|--|---------------|
| <br><b>Dr. Prakash Pawar</b><br>Officiating Principal   | STD : 07105<br>NAAC Re-accredited with 'B' Grade<br>VSPM Academy of Higher Education<br><b>ARVINDBABU DESHMUKH MAHAVIDYALAYA</b><br>BHARSINGI, Dist. Nagpur - 441305 | Ph : 233329   |
| Ref.No. : ADM/2022/346   |  | Date 13/09/22 |
| <b>Integrated Energy, Environment &amp; Green Policy</b>   |  |               |
| <p>Management of our institution is committed to go green for making our nation to Atma-Nirbhar (Self-Sustainable) in area of energy and environment.</p>  |  |               |
| <p>Our emphasis is to:-</p> <ul style="list-style-type: none"><li>• Ensure continuous enhancement in our energy and water conservation and usage.</li><li>• Continuous monitoring the energy consumption pattern through periodic reviews and using latest informative system.</li><li>• Procure and use energy efficient equipment's and products.</li><li>• Create awareness regarding necessity of energy conservation and making environment pollution free to all the stakeholders by arranging awareness activity such as seminar, webinar, rallies and guest lectures etc.</li><li>• Carry out regular energy, environment and green audit by certified auditors to identify the areas for improvement.</li></ul> |  |               |
| <br><b>Off. Principal</b><br><b>Arvindbabu Deshmukh Mahavidyalaya,</b><br><b>Bharsingi Dist. Nagpur</b>   |  |               |
| <p>REDMI NOTE 8 PRO AI QUAD CAMERA e-mail : admv_bharsingi@rediffmail.com website : www.adm.edu.in, Ph : 07105-233533, 233330</p>  |  |               |



## **EXECUTIVE SUMMARY**

### **Green Initiatives Taken by College**

#### **+ CAMPAIGN OF PLANTATION AND GREEN CAMPUS**

College has around **667** trees in the campus. It is good initiative taken by management for green campus under the campaign of plantation. **It is APPRECIABLE.**

### **AUDIT RECOMMENDATION**

#### **+ 5 Dust bin system**

It is observed that college has adopted single dust bin system for all kind of waste generated in college campus. It is recommended to 5 dust bin system for segregation of all type of waste

#### **+ QR code system on tree**

While the world seems to be going digital, people lack the time to read books and process the information they contain. Hence, college can provide QR codes on the trees for its information and to exploit the rapidly growing platform for a unique purpose.

---

## **CHAPTER-1**



## Green Audit Report Arvindbabu Deshmukh Mahavidyalaya Bharsingi, Dist. Nagpur Year-2021-22



### INTRODUCTION

#### 1.1 About College

Arvindbabu Deshmukh College of Arts, Science and Commerce also well known as AD College, was established in 1986. In its journey during the past 35 years it has grown in strength from 75 students from its inception to a total strength of 2000 students today. Also there are 1300 students studying in YCMOU through this college. Under the affiliation of Rashtrasant Tukadoji Maharaj University of Nagpur. College offers undergraduate and post graduates programs like B.A., B.Com. From 1986 and later in 2008 B.Sc. and M.A. has been started. The college is also identified as community college under scheme of UGC and running a skill oriented diploma course in Welding and Fabrication. Beside that the college also runs as-on courses like Fashion designing and Communicative English. Listed in first top ten for the graduation course in mass media. College having units such as N.S.S. of 250 students, college awarded with best college for N.S.S. by R.T.M.N.U., Nagpur. College having very active sport department. Every year students are performed at National, State, University level and received Gold, Silver and bronze medal. Our college organized International, National, State and University level Conferences, Seminars and Workshops in various subjects. College is popular for its cultural, sports and drama activities and infrastructural facilities.

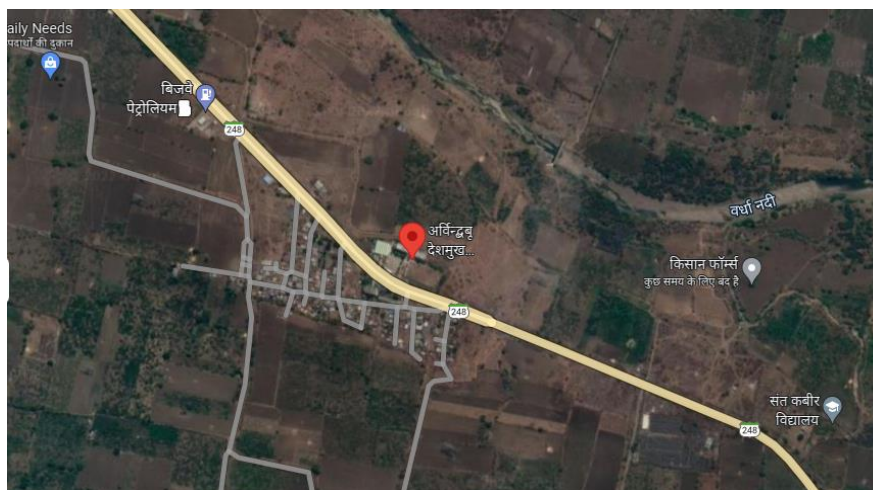


Figure 1.1: - Satellite Image of Arvindbabu Deshmukh Mahavidyalaya



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**Vision and Mission:-**

**VISION**

To become a centre of quality education by promoting high academic and social pursuit and competencies of students of rural region for all round development

**MISSION**

- To impart higher education for all round development of students of rural area and provide them an opportunity to made them competent for development in society
- The priority of the institution is to bring academic excellence along with personality development to compete with the rest of the world.
- The institution is located in the remote area so maximum students belong to backward communities and socio – economically weaker section so provide them opportunity to make themselves competent.
- To provide opportunity in future by providing them quality education, skilled base programme, competitive examination guidance, sports facility etc.

| <b>Sr. No.</b> | <b>Floor</b>        | <b>Department</b>   |
|----------------|---------------------|---|
| 1.             | Ground floor        | Administration office, Principal cabin, Classrooms                  |
| 2.             | First floor         | Examination cell, IQAC room, Classrooms, Computer lab               |
| 3.             | Second Floor        | Science Laboratory, Audio visual hall, classroom, Girls common room |
| 4.             | Third floor         | Classrooms, Boys common room  |
| 5.             | Indoor stadium area | Indoor stadium, gymnasium, college canteen,                         |
| 6.             | Girls hostel        | Hostel rooms, Canteen, warden room                                  |
| 7.             | Playground          | Playground, Basketball court, parking                               |





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**Name of Buildings in campus and Build up area of Buildings**

| Sr. No. | Building      | Department      |
|---------|---------------|-----------------|
| 1.      | Main Building | 3033.115 Sq. M. |
| 2.      | Indoor        | 1176. 15 Sq. M. |
| 3.      | Hostel        | 1458.114 Sq. M. |
| 4.      | Canteen       | 140 Sq. M.      |

**Number of courses:-04**

**Name of courses: -** Bachelor of Arts, Bachelor of Science, Bachelor of Commerce, Master of Arts (Marathi)

| Sr. No. | Name of teaching Departments    |
|---------|---------------------------------|
| 1       | Department of Marathi           |
| 2       | Department of English           |
| 3       | Department of History           |
| 4       | Department of Political science |
| 5       | Department of Economics         |
| 6       | Department of Music             |
| 7       | Department of Home-economics    |
| 8       | Department of Chemistry         |
| 9       | Department of Botany            |
| 10      | Department of Zoology           |
| 11      | Department of Physics           |
| 12      | Department of Mathematics       |
| 13      | Department of Commerce          |



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### 1.2 About green auditing

Eco campus is concepts implemented in many educational institutions, all over the world to make them sustainable because of their mass resource utilization and waste discharge in to the environment.




Green audit means to identify opportunities to sustainable development practices, enhance environmental quality, improve health, hygiene and safety, reduce liabilities achieve values of virtue. Green audit also provides a basis for calculating the economic benefits of resource conservation projects by establishing the current rates of resource use and their associated costs.

Green auditing of “**Arvindbabu Deshmukh Mahavidyalaya, Bharsingi, Dist. Nagpur**” enables to assess the life style, action and its impact on the environment. This green audit was mainly focused on greening indicators like utilisation of green energy (solar energy) and optimum use of secondary energy sources (petrol and diesel) in the college campus, vegetation, and carbon foot print of the campus etc. The aim of green auditing is to help the institution to apply sustainable development practices and to set examples before the community and young learners.

### 1.3 Objectives of Green Auditing

The general objective of green audit is to prepare a baseline report on “Green campus” and alternative energy sources (solar energy), measures to mitigate resource wastage and improve sustainable practices.

#### **The specific objectives are:**

-  To inculcate values of sustainable development practices through green audit mechanism.
-  Providing a database for corrective actions and future plans.
-  To identify the gap areas and suggest recommendations to improve the green campus status of the Colleges



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### 1.4 Audit of Green Energy

According to the **Environmental Protection Agency (EPA)**, green energy provides the highest environmental benefit and includes power produced by solar, wind, geothermal, biogas, low-impact hydroelectric, and certain eligible biomass sources. Green energy can also reduce your carbon footprint and achieve a sustainable lifestyle.





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**CHAPTER- 2**  
**GREEN CAMPUS**

**2.1 Green Audit**

In the survey, focus has been given on assessment of present status of diversity in form of plants, in college campus and efforts made by the college authorities for nature conservation. Campus is located in the vicinity of approximately more than **667 Trees** medicinal herbs ornamental plants. The detail is given below

**2.2 List of plants in college campus**

| Sr.No. | Botanical name          | Common name             | Quantity |
|--------|-------------------------|-------------------------|----------|
| 1.     | Abies sp.               | Indian silver fir.      | 3        |
| 2.     | Abrusprecatorius        | Gunja                   | 2        |
| 3.     | Acacia leucophloea      | Safed Babul             | 3        |
| 4.     | Acasianilotica          | Babool                  | 3        |
| 5.     | Acorus calamus          | Bekhand                 | 1        |
| 6.     | Agave sp.               | Century plant           | 5        |
| 7.     | Allium ursinum          | Wild Garlic             | 1        |
| 8.     | Alstoniascholaris       | Saptaparna              | 2        |
| 9.     | Amomum subulatum        | Black Cardamom          | 1        |
| 10.    | Annona squamosa         | Sitaphal                | 3        |
| 11.    | Argeria nervosa         | Adhoguda                | 1        |
| 12.    | Averrhoecarambola       | Karambal                | 1        |
| 13.    | Azadirachta indica      | Neem                    | 43       |
| 14.    | Bamboo sp.              | Bamboo                  | 9        |
| 15.    | Bixa orellana           | Lipstick Tree / Annatto | 1        |
| 16.    | Bougainvillea glabra    | Booganvel               | 16       |
| 17.    | Butea monosperma        | Palas                   | 3        |
| 18.    | Caesalpinia bonduc      | Sagargoti               | 1        |
| 19.    | Calatropisprocera       | Rui                     | 2        |
| 20.    | Canna sp.               | Kardali                 | 1        |
| 21.    | Carissa carandas        | Karanda                 | 6        |
| 22.    | Cassia fistula          | Bahava                  | 2        |
| 23.    | Chamaecostus cuspidatus | Pushkarmula             | 1        |
| 24.    | Cinnamomum verum        | Dalchini                | 1        |
| 25.    | Citrus lemon            | Lemon                   | 1        |
| 26.    | Couropitaguianensis     | Kailasapati             | 1        |
| 27.    | Cycas sp.               | Cycas                   | 6        |



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| Sr.No. | Botanical name                 | Common name                 | Quantity |
|--------|--------------------------------|-----------------------------|----------|
| 28.    | <i>Delonix regia</i>           | Gulmohar                    | 1        |
| 29.    | <i>Datura alba</i>             | Dhotra                      | 6        |
| 30.    | <i>Eichhornia crassipes</i>    | Kendad                      | 7        |
| 31.    | <i>Equisetum</i>               | Horsetail                   | 1        |
| 32.    | <i>Euphorbia milli</i>         | The crown of thorns         | 15       |
| 33.    | <i>Ficus carica</i>            | Anjeer                      | 1        |
| 34.    | <i>Ficus elastic</i>           | Rubber tree                 | 2        |
| 35.    | <i>Ficus sp.1</i>              | Ficus                       | 24       |
| 36.    | <i>Ficus sp.2</i>              | Ficus                       | 9        |
| 37.    | <i>Gymnemasylvestre</i>        | Gurmar                      | 1        |
| 38.    | <i>Holoptelea integrifolia</i> | Papra                       | 1        |
| 39.    | <i>Hydrilla sp.</i>            | Waterthyme                  | 1        |
| 40.    | <i>Ixora sp.</i>               | Pentgul                     | 17       |
| 41.    | Jasmine                        | Jasmine                     | 9        |
| 42.    | <i>Jatropha integerrima</i>    | Peregrina                   | 1        |
| 43.    | <i>Justicia adhatoda</i>       | Adulsa                      | 2        |
| 44.    | <i>Lantana camara</i>          | Ghaneri                     | 25       |
| 45.    | <i>Lawsoniainermis</i>         | Henna                       | 70       |
| 46.    | Lily                           | Lily                        | 4        |
| 47.    | <i>Madhuka indica</i>          | Moh                         | 2        |
| 48.    | <i>Marsilea sp.</i>            | Water-Clover                | 5        |
| 49.    | <i>Mesua ferrea</i>            | Nagkesar                    | 1        |
| 50.    | <i>Moringa oleifera</i>        | Shevga                      | 7        |
| 51.    | <i>Murrayakoenigii</i>         | Kari patta                  | 1        |
| 52.    | <i>Musa sp.</i>                | Banana                      | 1        |
| 53.    | <i>Myristica fragrans</i>      | Nutmeg                      | 1        |
| 54.    | <i>Neolamarkiakadamba</i>      | Kadam                       | 2        |
| 55.    | <i>Nerium sp.</i>              | Kaner                       | 10       |
| 56.    | <i>Ocimumtenuiflorum</i>       | Tulsi                       | 1        |
| 57.    | <i>Oroxylum indicum</i>        | Tetu                        | 1        |
| 58.    | <i>Palm sp.</i>                | Palm                        | 5        |
| 59.    | <i>Passiflora foetida</i>      | Passionflower               | 1        |
| 60.    | <i>Passiflora incarnate</i>    | Passionflower               | 1        |
| 61.    | <i>Phyllanthus emblica</i>     | Amla                        | 34       |
| 62.    | <i>Piper longum</i>            | Pimpli                      | 1        |
| 63.    | <i>Pisonia alba</i>            | Variegated Pisonia          | 1        |
| 64.    | <i>Pistia stratiotes</i>       | Water Cabbage/ Jalamandavi, | 25       |
| 65.    | <i>Pithocelobiumdulci</i>      | Vilayatichincha             | 1        |



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| Sr.No. | Botanical name             | Common name    | Quantity   |
|--------|----------------------------|----------------|------------|
| 66.    | Plumaria alba              | Chafa          | 7          |
| 67.    | Polyalthia longifolia      | Devdar/ Ashoka | 48         |
| 68.    | Pongamia pinnata           | Karanj         | 19         |
| 69.    | Premna integrifolia        | Ranatakali     | 1          |
| 70.    | Prunus dulcis              | Badam          | 12         |
| 71.    | Psidium guajava            | Peru           | 1          |
| 72.    | Pterocarpus santalinus     | Red sanders    | 1          |
| 73.    | Putranjivaroxburgii        | Patravanti     | 1          |
| 74.    | Roses varieties            | Gulab          | 16         |
| 75.    | Royal Palm sp.             | Royal Palm     | 12         |
| 76.    | Santalum album             | Chandan        | 3          |
| 77.    | Saracaasoka                | Ashok          | 1          |
| 78.    | Sciziziumcumini            | Jamun          | 1          |
| 79.    | Tecoma stans               | Futani         | 2          |
| 80.    | Tectona grandis            | Sagwan         | 55         |
| 81.    | Thevetia peruviana         | Bitti          | 5          |
| 82.    | Thuja sp.                  | Morpankhi      | 54         |
| 83.    | Zizipuszuzuba              | Ber            | 10         |
|        | <b>Total no. of plants</b> |                | <b>667</b> |

College has **667 Trees** in the campus. This is good initiative taken by management for green campus under the campaign of plantation. **It's APPRECIABLE.**

**Some photographs of green campus & plantation**





## CHAPTER- 3 WASTE MANAGEMENT

### 3.1 About Waste:

Human activities create waste, and it is the way these wastes are handled, stored, collected and disposed of, which can pose risks to the environment and to public health waste management is important for an eco-friendly campus. In College different types of wastes are generated, its collection and management are very challenging.

Solid waste can be divided into three categories: bio-degradable, non-biodegradable and hazardous waste. A bio-degradable waste includes food wastes, canteen waste, wastes from toilets etc. Non-biodegradable wastes include what is usually thrown away in homes and schools such as plastic, tins and glass bottles etc. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals, acids and petrol.

Unscientific management of these wastes such as dumping in pits or burning them may cause harmful discharge of contaminants into soil and water supplies, and produce greenhouse gases contributing to global climate change respectively. Special attention should be given to the handling and management of hazardous waste generated in the College. Bio-degradable waste can be effectively utilized for energy generation purposes through anaerobic digestion or can be converted to fertilizer by composting technology. Non-biodegradable waste can be utilized through recycling and reuse. Thus, the minimization of solid waste is essential to a sustainable College. The auditor diagnoses the prevailing waste disposal policies and suggests the best way to combat the problems.

Table 3.1 Different types of waste generated in the college Campus.

| Sr.No. | Types of Waste    | Particulars  |
|--------|-------------------|--|
| 1      | Solid wastes      | Damaged furniture, paper waste, paper plates, food wastes etc.                 |
| 2      | Plastic waste     | Pen, Refill, Plastic water bottles and other plastic containers, wrappers etc. |
| 3      | E-Waste           | Computers, electrical and electronic parts etc.                                |
| 4      | Glass waste       | Broken glass wares from the labs etc.  |
| 5      | Chemical wastes   | Laboratory waste etc.  |
| 6      | Bio-medical Waste | Sanitary Napkin etc.   |



### 3.2 Waste management practices adopted by the college

College has a different type of waste generated like paper, Plastic, dust and wet waste. The college provided dust bin near classroom office, laboratories staffroom and collect the waste material at the end of the day. The waste (Especially dry material) is collected in a big dustbin which is provided at every floor and the next day collected Municipal Corporation for further processing.



**Figure 3.1 Dust Bin system use by college**

### Recommendation

It is recommended adopted 5 dust bin waste collection system for collect different type of waste generated in college premises.



**Recommended 5 Dust bin waste collection system**





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### 3.3 Waste Collection Points

Audit team also visited various departments, canteen, to find out waste generation area and waste collection points for further improvement. Details are given in the table

Detailed of waste collection dust bin system

| Sr. No | Location/ Name of Building | Type of waste        | Type of Colour | Quantity (no) |
|--------|----------------------------|----------------------|----------------|---------------|
| 1      | Admin Building             | Solid                | Blue           | 10            |
| 2      | Admin Building             | Semi solid           | Yellow         | 5             |
| 3      | Admin Building             | Glass waste, e-waste | Green          | 5             |
| 4      | Hostel Building            | Solid                | Blue           | 7             |
| 5      | Hostel Building            | Semi solid           | Green          | 3             |
| 6      | Indoor stadium             | Solid                | Yellow         | 7             |
| 7      | Canteen                    | Solid                | Blue           | 1             |
| 8      | Canteen                    | Semi solid           | Yellow         | 1             |





## **CHAPTER- 4**

### **RECOMMENDATIONS AND SUGGESTIONS**

#### **4.1 QR Code system**

While the world seems to be going digital, people lack the time to read books and process the information they contain. Hence, College can be provided QR codes on the trees for its information and to exploit the rapidly growing platform for a unique purpose.



Fig: 4.1 QR code system for plants

These codes can give students all the information they need to know about the tree — from its scientific name to its medicinal value. They only need to put their smart-phones to use. QR codes to them, making it easier for everybody to learn about a plant or a tree at the tip of their fingers,” If any app generating a QR code, which is available for free on the online stores, can be used to avail the information of the trees.

#### **✚ Eco-restoration programmes**

- Frame long-term eco-restoration programmes for replacing exotic Acacia plantations with indigenous trees and need of the hour is to frame a holistic campus development plan.



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### 4.2 Other Suggestions

Some of the very important suggestions are: -

- ✚ Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact of its purchasing decisions.
- ✚ Increase recycling education on campus.
- ✚ Increase Awareness of Environmentally Sustainable Development in College campus.
- ✚ Practice Institutional Ecology- Set an example of environmental responsibility by establishing institutional ecology policies and practices of resource conservation, recycling, waste reduction, and environmentally sound operations.
- ✚ Involve All Stakeholders- Encourage involvement of government, foundations, and industry in supporting interdisciplinary research, education, policy formation, and information exchange in environmentally sustainable development.
- ✚ Collaborate for Interdisciplinary Approaches- To develop interdisciplinary approaches to curricula, research initiatives, operations, and outreach activities that support an environmentally sustainable future.
- ✚ Increase reduces, reuse, and recycle education on campus.
- ✚ Develop a butterfly garden that arouses appreciation towards flora and fauna diversity.
- ✚ Name all the trees and plants (Plant DNA barcodes) with its common name and scientific name.
- ✚ Arrange training programmes on environmental management system and nature conservation.
- ✚ Renovation of cooking system in the canteen to save gas by installation solar water heater system with heat pump.
- ✚ Establish a procurement policy that is energy saving and eco-friendly.



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**END OF THE REPORT**

**THANKS**