



**UTTAR BHARATIYA SANGH'S**  
**MAHENDRA PRATAP SHARADA PRASAD SINGH**  
**COLLEGE OF COMMERCE & SCIENCE**  
(Affiliated to University of Mumbai)  
(COLLEGE CODE - 729)

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**7.1.2**

**The Institution has facilities and initiatives for:**

- 1. Green Energy**
- 2. Waste Management**
- 3. Green Campus Initiatives**
- 4. Disabled Friendly Environment**



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**7.1.2**

**INDEX**

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1A	Alternate Sources of Energy
1B	Energy Conservation Measures
2A	Management of Degradable Waste
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3	Water Conservation
4	Green Campus Initiatives
5	Disabled Friendly, Barrier free Campus
6	Policy Document on the Green Campus
7	Policy Document on the Plastic Free Campus



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**7.1.2**  
**1A: ALTERNATE SOURCES OF ENERGY**



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**7.1.2: Alternate Sources of Energy**

**Solar Energy:**

- It is a Renewable energy
- It is free, easy and plenty in India
- It reduces electricity bills of establishment
- It is Pollution free energy source
- It is Eco-Friendly source of energy

**HEI has – Solar Lamps as Renewable energy source in the campus**



*Nitin*

**I/C PRINCIPAL**  
Mahendra Pratap Sharada Prasad Singh College  
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Bandra (East), Mumbai - 400 051

Plot no. 629/1243, Behind Teacher's Colony, Bandra East, Mumbai - 400051, Contact No:- 7738445493.

Website:- <https://ubseducation.in>, Email-ID:- [mpspcollege@rediffmail.com](mailto:mpspcollege@rediffmail.com)



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**7.1.2**

**1B: Energy Conversation  
Measures**



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**7.1.2 B) Energy Conservation Measures:**

HEI follows the ECMs that is Energy Conservation measures – ECM. It reduces electrical energy consumption in a college. Its benefits are as – Cost Savings; Environmental benefits; Preserving Resources and Sustainable:

HEI has following Energy Conservation Measures

- i. Using energy efficient appliances
- ii. Turning Devices off
- iii. Unplugging Electronics Devices
- iv. Monitoring Appliances
- v. Changing user behaviour

i. **Using energy efficient appliances**



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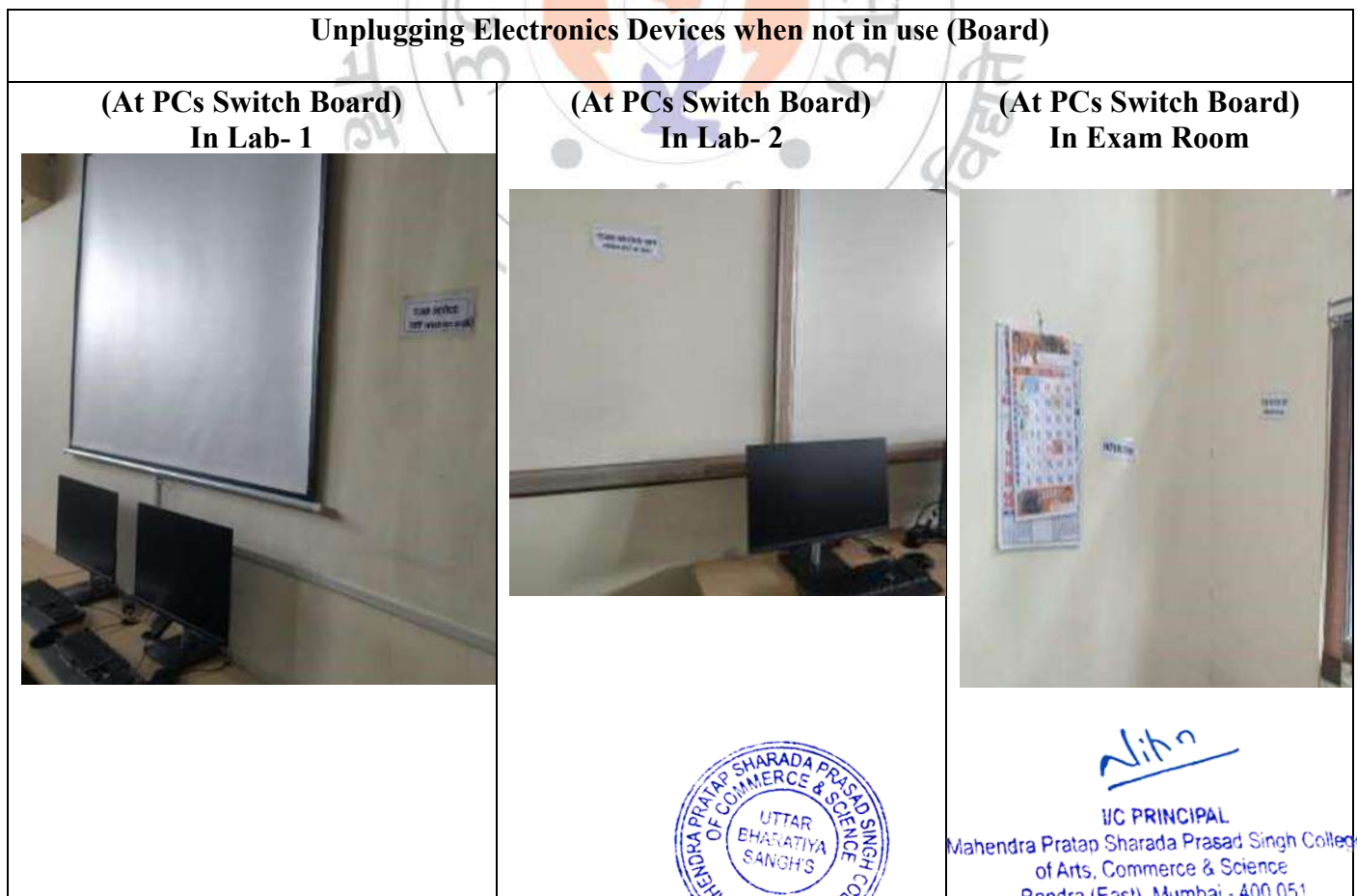
**ii. Turning Devices off**



Turning electrical devices off when not in use signifies electricity conservation, avoid fire accident and safety.

**iii. Unplugging Electronics Devices**

Unplugging devices when not in use for vacation period, consumes electrical energy, minimise the carbon emission and reduce chance of fire and extend the life of devices.





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**iv. Monitoring Appliances:**

It conserves the electrical energy. It reduces the electrical energy uses by appliances.

**Monitoring Appliances:**



**v. Changing User Behaviour**

It saves about 20% of electrical energy. It includes:



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## 7.1.2

# **2A: MANAGEMENT OF DEGRADABLE WASTE**



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**7.1.2 (2A) Management of Degradable Waste:**



Degradable Waste – Canteen Waste, plant waste, used papers etc. are decomposed as Vermicomposting.(Earthworm Composting).

Vermicomposting:

- Eco-friendly Process
- Turns Organic waste into nutrient rich soil.
- Soil improvement
- Waste reduction
- Livelihood support



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**7.1.2**

**2B: MANAGEMENT OF  
NON-DEGRADABLE  
WASTE**



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7.1.2 (2B) – Management of Non-degradable waste.

WASTE SEGREGATION



Non Degradable waste management:

- Waste Segregation
- Handed over to BMC System
- Processed at dumping ground
- Maintain clean – hygienic campus



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### 7.1.2

### 3. Water Conservation

- 1. Sustainable Water pump**
- 2. Water storage tank**
- 3. Rain water harvesting**
- 4. Turning tap off**
- 5. Zero water leakage mission**



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**7.1.2 (3.1) Water Submersible water pump**

HEI has rechargeable ground water source. It has submersible water pump.

(photo)



**7.1.2 (3.2) Water storage tank**

Water storage tank helps in water use in Conservative way.



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**7.1.2 (3.3) Rain Water Harvesting**



**Rain Water Harvesting – Plan by Engineer**

**DR. AMAR JOSHI, Ph.D., M.S.E. (Mumbai)**  
GEOLOGIST

Contact: 9138094878, 9138094879

304, MITTAL'S, WEST AVENUE, SANTACRUZ (W), MUMBAI-400048

PROFESSIONAL \* ENVIRONMENTAL GEOLOGY \* RAINWATER HARVESTING

E-mail: amarjoshi@rediffmail.com, amarjoshi@geotight.com, rainrecharge@gmail.com

Date- 04/05/2019

**TO WHOM SO EVER IT MAY CONCERN**

Name & Addresses of Owner: Uttar Bharatiya Sangh, plot no 629/1243 Near Teachers Colony-F Block, Bkt. Bandra-East, Mumbai-400 051.

Name & Addresses of Licensed surveyor/Architect: Ar. Parjat Miara, 305, A Wing, Bagan Building, 5v Road, Santacruz(W) Mumbai-400 054.

This is to Certify that the Rain Water Harvesting Tank is Constructed as per the design and drawing issued by me.

The work at site is executed Satisfactorily. The Rain Water Harvesting Tank meets the specified standards as per the Govt. Notification in vogue.

Signed Faithfully  
*Amar Joshi*  
DR. AMAR N. JOSHI

**RAINWATER HARVESTING SCHEME AT PRESENT SITE**

Soft Copy – at Rain Water Harvesting Plan



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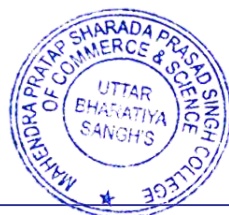
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**7.1.2 (3.4) Turning tap off**



**7.1.2 (3.5) Zero Water leakage mission**



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**7.1.2 4) Green Campus Initiatives**

- A. Greenery
- B. Paperless office 'e-office'
- C. Environmental Education
- D. Water Conservation
- E. Waste Management
- F. Plastic Free campus
- G. Green Audit
- H. Environmental Audit
- I. Energy Audit
- J. E-waste Management Audit

**A. Greenery – HEI has over 200 trees, shrubs and many more herbs-potted plants.**

			<b>29 Coconut Trees</b>
			<b>3 Mango Trees</b>



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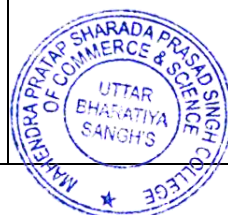
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			<b>24</b> <b>Ashoka</b> <b>Trees</b>
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7.1.2 (4) Green Campus Initiatives

			<b>07</b> <b>Variation</b> <b>in the</b> <b>Trees</b>
<b>01 Mahua</b> <b>Tree</b>	<b>02 Guava</b> <b>Trees</b>	<b>01 Badam</b> <b>Tree</b>	
			
<b>02 Neem</b> <b>Trees</b>	<b>01 Java</b> <b>plum</b>		



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**G-2 – Shrubs –**

			
<b>Hibiscus</b>	<b>Arabian Jasmin</b>	<b>Snake Plant</b>	<b>Bougainvillea</b>

**Herbs –**

			
<b>Holy Basil</b>	<b>Ajwain</b>	<b>Insulin</b>	<b>Spider Plant</b>



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## Potted Plants –



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## Tree Plantation by the students



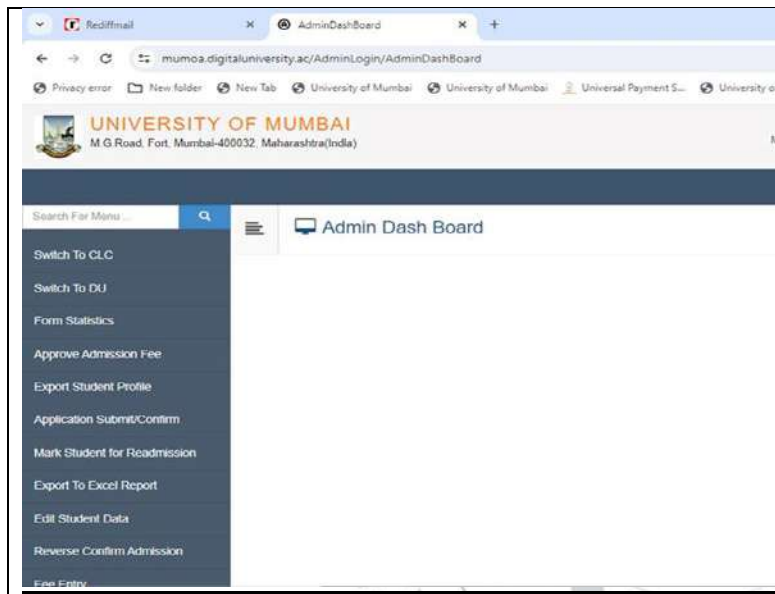
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**7.1.2 4) GREEN CAMPUS INITIATIVE**

**B) PAPER-LESS OFFICE/ E-OFFICE:**



**ONLINE- ADMISSION**

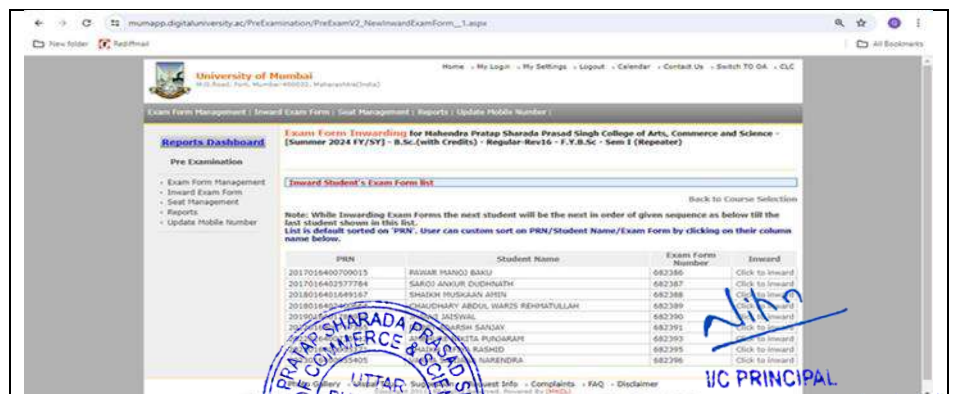
To reduce the use of papers, college has online-Admission process with University of Mumbai.

Examination form filing is online. It reduces the paper use. The process is used of University of Mumbai. It generates the e-hall ticket for students



Under 'Paperless' initiative HEI operates administration through the paperless 'e' technology based techniques.

It reduces the use of paper, indirectly HEI has Green initiatives



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**7.1.2 (4) Green Campus Initiatives**

**(c) Environmental Education**

**EVS in Curriculum**

<b>SYLLABUS</b>		
<b>ENVIRONMENTAL STUDIES – I</b>		
<i>Modules at a Glance</i>		
Sr. No.	Modules	No. of Lectures
1.	Environment and Ecosystem	13
2.	Natural Resources and Sustainable Development	13
3.	Populations and Emerging Issues of Development	13
4.	Urbanisation and Environment	13
5.	Reading of Thematic Maps and Map-Filling	08
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1.	<b>Environment and Ecosystem</b> Environment : Meaning, definition, scope and its components; concept of an ecosystem; definition, Characteristics, components and types, functioning and structure; Food Chain and Food Web- Ecological Pyramids - Man and environment relationship; Importance and scope of Environmental Studies.
2.	<b>Natural Resources and Sustainable Development</b> Meaning and definitions ; Classification and types of resources, factors influencing resource utilisation; Resource conservation- meaning and methods-conventional and non-conventional resources , problems associated with and management of water, forest and energy resources- resource utilization and sustainable development.
3.	<b>Populations and Emerging Issues of Development</b> Population explosion in the world and in India and arising concerns- Demographic Transition Theory - pattern of population growth in the world and in India and associated problems - Measures taken to control population growth in India; Human population and environment- Environment and Human Health – Human Development Index – The World Happiness Index.



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# POLLUTION CONTROL

**Speaker**  
**Mrs. Sunita Thakur**  
(I/C PRINCIPAL)  
Shri L.P. Raval College of Education  
and Research, Mira Road

DATE:- 22/04/2023  
TIME:- 10.00am to 11.00am

Plot No. 629 /1243, behind Teacher's Colony, Bandra East, Mumbai, Maharashtra 400051

**(D) Water Conservation – Rain Water Harvesting**



Plot no. 629/1243, Behind Teacher's Colony, Bandra East, Mumbai - 400051, Contact No. 98445493.

Website:- <https://ubseducation.in>, Email:- [mpscollege@rediffmail.com](mailto:mpscollege@rediffmail.com)



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**(E) Waste Management**

**Degradable waste management**



**Non- Degradable Waste management**



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**(F) Plastic free campus**

**No plastic posters in canteen**



**No plastic posters in office area**



**No plastic posters at campus area**



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## **7.1.2 (G) GREEN CAMPUS INITIATIVES**

- (G) Green Audit**
- (H) Environment Audit**
- (I) Energy Audit**
- (J) E-Waste Management Audit**



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**(G) Certificate of Green Audit**

Government of India GST REG-06ORG:NO: 27AQJPM2803Q1ZD Ccerti.no: VLAES/23/01



**GREEN AUDIT CERTIFICATE**

**Mahendra Pratap Sharada Prasad Singh College of Commerce and Science**

Plot No. 629 /1243, Behind Teacher's Colony, Bandra (E), Mumbai – 400051.

*Has successfully undergone the "GREEN AUDIT" during the period 2022-2023  
Under our supervision and the efforts taken by the management and faculty towards the green  
campus are highly appreciable.*

**Given on May 24, 2023**

Project Head  
Vrindavan Landscape & Ecological Solutions

**Nurture nature, and nature will nurture you**

भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम विभाग  
Ministry of Micro, Small and Medium Enterprises

**UDYAM-MH-19-0065047**

**(H) Certificate of Environment Audit**

Government of India GST REG-06ORG:NO: 27AQJPM2803Q1ZD Ccerti.no: VLAES/23/03



**ENVIRONMENT AUDIT CERTIFICATE**

**Mahendra Pratap Sharada Prasad Singh College of Commerce and Science**

Plot No. 629 /1243, Behind Teacher's Colony, Bandra (E), Mumbai – 400051.

*Has successfully undergone the "Environment  
Audit" during the period of 2022- 2023  
Under our supervision and the efforts taken by the  
management and faculty towards the E-co friendly  
campus are highly appreciable.*

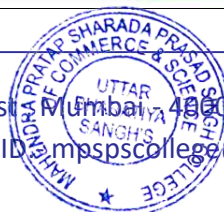
**Given on: May 18, 2023**

Project Head  
Vrindavan Landscape & Ecological Solutions

**Nurture nature, and nature will nurture you**

भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम विभाग  
Ministry of Micro, Small and Medium Enterprises

**UDYAM-MH-19-0065047**



*Nita*

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**(I) Certificate of Energy Audit**

Government of India GST REG-06ORG:NO: 27AQJPM2803Q1ZD

Ccerti.no: VLAES/23/02



**ENERGY AUDIT CERTIFICATE**


**Mahendra Pratap Sharada Prasad Singh College of Commerce and Science**

Plot No. 629 /1243, Behind Teacher's Colony, Bandra (E), Mumbai – 400051.

*Has successfully undergone the "Energy Audit" during the period of 2022-2023  
Under our supervision and the efforts taken by the management and faculty towards the energy  
management and conservation highly appreciable.*

Given on: May 21, 2023

Project Head  
Vrindavan Landscape & Ecological Solutions



भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small and Medium Enterprises

UDYAM-MH-19-0065047



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**(J) Certificate of E-waste Management Audit**

Government of India GST REG-06ORG:NO: 27AQJPM2803Q1ZD



**Ccerti.no: VLAES/23/05**

**WASTE MANAGEMENT CERTIFICATE**

**Mahendra Pratap Sharada Prasad Singh College of Commerce and Science**

Plot No. 629 /1243, Behind Teacher's Colony, Bandra (E), Mumbai – 400051.

***Has successfully undergone the WASTE MANAGEMENT PROCESS during the period of  
May to July 2023***

***Under our supervision and the efforts taken by the management and faculty towards the green  
campus are highly appreciable.***

**Given on May 30, 2023**



**Nurture nature, and nature will nurture you**

Project Head

Brindavan Landscape & Ecological Solutions



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**7.1.2 (5) Disabled friendly – Barrier free environment**

- A. Ramp
- B. Railings
- C. Lifts
- D. Wheel Chair
- E. Washroom for Disables

**Ramp – Barrier free environment**



**Railings - Barrier free environment**



**Lifts -1 - Barrier free environment**



**Lifts -2 - Barrier free environment**



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Bandra (East), Mumbai - 400 051

Plot no. 629/1243, Behind Teacher's Colony, Bandra East, Mumbai - 400051, Contact No:- 7738445493.

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**Washroom for Disables**



**Wheelchair for disables**



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**7.1.2. (6) Policy Document on the Green Campus**



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**POLICY ON GREEN CAMPUS**

**2022-23**

**Green Campus Shark Tank**

- Principal- Dr. Nitin Agarwal
- IQAC Co-ordinator-Ms Rashmi Singh
- Admin In charge – Mr. Sachin Hede
- Member -Mr. B.D. Mishra
- Member – Ms Madhavi Neman
- Member -Mr Ashish Chauhan
- Club – Nature club of college
- NSS – NSS Officer, NSS Volunteers



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# **POLICY ON GREEN CAMPUS**

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**Policy document on the green campus**

**1) Trust governance: Introduction**  
**(Green campus policy maker)**

**A. Trust governance**

i. <b><u>Management of college</u></b>	<b><u>Uttar Bhartiya Sangh</u></b>
ii. <b><u>Minority institution</u></b>	<b><u>Hindi linguistic minority institution</u></b>
iii. <b><u>Establishment</u></b>	<b><u>15th December 1949</u></b>
iv. <b><u>Vision</u></b>	<b><u>To emerge as institution of higher learning</u></b>
v. <b><u>Mission</u></b>	<b><u>To provide and excellent infrastructure for healthy academic atmosphere</u></b>
vi. <b><u>Objective</u></b>	<b><u>To office today divorce education that promote creativity</u></b>

<b><u>President</u></b>	<b><u>Working president</u></b>	<b><u>General secretary</u></b>	<b><u>Treasurer</u></b>	<b><u>Trustee</u></b>
				
<b><u>Shri Santosh Singh</u></b>	<b><u>Shri Sharda Prasad Singh</u></b>	<b><u>Shri Devendra Tiwari</u></b>	<b><u>Shri Ajay Kumar Singh</u></b>	<b><u>Shri Sanjay Singh</u></b>

**B) Trust government for green campus:**

- A green campus policy aims to create an environmental friendly and sustainable campus for students
- spreading the idea of an environmentally friendly culture to the surrounding community.
- Protecting and conserving the campus ecological systems and resources
- Ensuring that environmental resources are used wisely to meet the needs of current and future generations.
- Minimising waste and consumption of water and energy.



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- Adopting an implementing environmentally friendly activities.
- Reducing the consumption of natural and non renewable resources through the use of digital technology and management.

**C) Scope of green campus policy in view of management:**

‘Earth provides enough to satisfy every month need but not every man's greed’. It is well said by Mahatma Gandhi. The policy related to green campus will develop new co- curricular and extra-curricular practices. It encourages students to take the lead and creating positive change. This steps are for a thorough review of all infrastructural, administration initiative from the purpose of cleanliness, hygiene and environmental sustainability.

**2. HEI governance of green campus (Green policy executor)**

**A) HEI governance:**

Sr. No.	HEI	Description
1	Name	Mahindra Pratap Sharada Prasad Singh College of Commerce in science
2	Affiliation	University of Mumbai
3	Establishment	?
4	Type of Institution	Co-education , self-finance, regular, multi-disciplinary
5	Vision / mission / objectives	As per the trust governance



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Principal	IQAC coordinator	Nature club	Admin staff	Senior staff
				
Dr. Nitin Agarwal	Ms. Rashmi Singh	Mr. Rehan Khan	Sachin Hede	Ms. Shweta Pathak

**B) HEI overnance for green campus**

- A green campus policy aims to create an environmental friendly and sustainable campus for students
- Spreading the idea of an environmentally friendly culture to the surrounding community.
- Protecting and conserving the campus ecological systems and resources
- Ensuring that environmental resources are used wisely to meet the needs of current and future generations.
- Minimising waste and consumption of water and energy.
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- Reducing the consumption of natural and non-renewable resources through the use of digital technology and management.

**C) Scope of green campus policy in view of HEI governance:**

‘Earth provides enough to satisfy every month need but not every man’s greed’. It is well said by Mahatma Gandhi. The policy related to green campus will develop new co- curricular and extra-curricular practices. It encourages students to take the lead and creating positive change. This steps are for a thorough review of all infrastructural, administration initiative from the purpose of cleanliness, hygiene and environmental sustainability.



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3) Alternate sources of energy:

i. Means of alternate sources of energy:

Energy is capacity to do work. It may be traditional energy or non-traditional energy. The traditional energy on natural sources, such as coal petrol diesel electricity energy CNG LPG etc. non tradition energy is mostly renewable source of energy. It is also called as alternate source of energy.

1. Solar energy: It is abundant and accessible. It can be generated at HEI level. The meridian position of country helps in accessible condition for solar energy generation.
2. Geothermal energy: Heat trapped beneath the first crust. It is not easily accessible to HEI.
3. Hydro power energy: It is produced from water. It is the main source of electrical energy. It is a generate at HEI level is not feasible.
4. Wind: It is produced by circular movement of windmill by wind. The advance tulip turbine made possible to set in HEI to generate the energy by using tulip turbine by wind.
5. Biogas: It is produced from fermentation farm waste in biogas plant (s). It is clean and green renewable source of energy. HEI have scope for set tulip turbine at root top. It may help for production of manure bio fertilizers beside the biogas - renewable.
6. Tidal power: It is produced by current flowing at seawater due to high tide and low tide continuously. It is clean, green, renewable form of energy. However, it is hardly applied in HEI as it requires oceanic topography.
7. Hydrogen energy: It is future fuel. The H<sub>2</sub> use as source of energy is in primary step. H E I may take lead for research renovation for use of H<sub>2</sub> as the alternate source of energy.

Management trust, HEI officials along with students are convinced to use alternative sources of energy. The concern of every state holder is for the green campus at the college. It can be achieved by renewable, non-polluting, alternative, unconventional sources of energy.

4) Energy conservation measures:

i. Save energy means generate energy:



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Management – Governance- HEI administration and students' parents of this college strongly agrees that energy conservation means energy generation.

Energy conservation needs to reduce energy consumption in a college premises.

ii. **Policy for energy conservation in college:**

- a. Use of renewable sources
- b. Energy audit
- c. Energy efficient equipment
- d. Attic insulation
- e. Turning of lights when not in use
- f. Unplugging appliances when not in use
- g. Walking institute of driving
- h. Energy efficient lighting design
- i. Understand and improve the efficiency of electrical systems
- j. Insulation on college roof
- k. Remote sensing electrical devices.

iii. **Initiative and follow up:** Policy was decided to go for implementation of energy conservation measures. There are so many ways means method to save energy. The mean always can be applied which is effective on that time or on that system. Governance of HEI should adopt every means to proceed for energy conservation. The same attempt can be implemented in society through awareness programs.

5) **Management of degradable waste:**

- A. To understand the degradable waste
- B. Understand the kind of degradable waste in college
- C. Action of management of degradable waste

A. **To understand the degradable waste:**

- Face that undergoes degradation is called degradable waste
- It is organic waste - biodegradable waste
- Degradation is mostly biological- chemical process.
- Its degradation is natural process.

B. **Degradable waste in College campus:**

- Paper
- Canteen waste
- Students tiffin waste
- Washroom waste



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- Employees tiffin waste etc.

**C. Action of management of degradable waste:**

- Separation or segregation of waste
  - Waste segregation is the process of sorting and separating waste into different categories based on their physical, biological and chemical properties.
  - Waste segregation helps which recycling and proper disposal. It can prevent hazardous waste from contaminating the environment.
  - Green containers used for collection of wet waste.
  - Blue containers are indicators for dry waste collection.
  - Red containers are for collection of sanitary waste.
  - Black (grey) containers are meant for collection and segregation of e-waste in college campus.
  - Composting: It is common and ever promising method to degradation of organic waste.
  - Vermicomposting which is advanced method of degradation of organic waste by using earthworms. It is better result oriented method.
- HEI is trying to understand and adopt the management of degradable waste by using these policies.

**6. Management of non-degradable waste:**

- A. Understand the non-degradable waste
- B. To understand the kind of non-degradable waste in campus
- C. Action of management of non-degradable waste in campus

**A. Understand the non-degradable waste:**

- It is kind of waste which not undergo decomposition, fermentation and biodegradation chemical degradation.
- The microbial fungus to break it into small usable form in an ecosystem is not possible because of its physical composition.
- Its disadvantage point start to deposit on earth surface, it works as pollutant, it creates hazardous effect to life.

**B. To understand the kind of non-degradable waste in campus:**

- i. Plastic files
- ii. plastic containers
- iii. Broken glasses
- iv. Wrappers
- v. Aluminium foils



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- 
- vi. E-waste such as computer peripherals mouse, wires, SMP's, motherboard, monitors etc.

**C. Action of management for Non-Degradable waste:**

i. Avoid the use of non-degradable waste

ii. Minimise the use of non-degradable waste

iii. Segregation of the Non-Degradable waste

iv. Recycling of the Non-Degradable waste

v. Processing of the non-degradable waste

vi. Awareness creation about non degradable waste

- i. **Avoid the use of non-degradable waste:** In the college campus try to avoid the use of non-degradable waste. It will be the best policy for management of non-degradable waste.
- ii. **Minimise the use of non-degradable waste:** certain time there is no alternate for use of non-degradable material devices. In such situation minimum use of such non-degradable devices can be adopted as a policy.
- iii. **Segregation of the Non-Degradable waste:** segregation of waste as degradable and non-degradable is to be followed. It helps to reuse and recycle of waste as per its origin and nature. The different coloured containers are used and segregate the degradable and non-degradable waste. It's first and corner stone method to adopt.
- iv. **Recycling of the Non-Degradable waste**
- v. **Processing of the non-degradable waste**
- vi. **Awareness creation about non degradable waste**

**7. Water conservation policy:**

- A. Turn off the tap
- B. Fix leaks
- C. Use water saving devices
- D. Use less water
- E. Recycle of the used water
- F. Rainwater harvesting
- G. Use drip irrigation in college gardens
- H. Recharge the gravitational water
- I. Use of own tube Wells, well as water resources



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**J. Awareness of water conservation in college and in society through students**

**8. Green campus initiative policy:**

**A. Conservation:**

- Environment conservation
- Water conservation
- Energy conservation

**B. Optimise:**

- Increase efficiency of environmental ecosystem
- Increase efficiency of water
- Increase efficiency of energy

**C. Sustainability:**

- Enhance sustainable environment
- Enhance sustainable water resources
- Enhance sustainable energy resources

**9. Disabled friendly, barrier free environment policy:**

**A. Accessibility:** ensuring that disabled have easy access to services activities and benefits. It includes Ramp, Railings, Lifts, Wheel Chair.

**B. Support:** Providing support for students with disabilities to participate in campus life, including exists to academic, co-curricular activities and building and facilities. It includes the receiving information in accessible formats, receiving high quality services from faculty, staff and having opportunities to provide feedback.

**C. Other Provisions:** it includes priority in admission concession fees disable friendly washroom, accessibility to washroom, medical facilities, screen reading audio - video devices brail format knowledge resources, disabled aids (ear devices, artificial limbs, electrical tricycles etc), scribe facilities for exam and safety sign boards.



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