

BEST PRACTICES 2

Title of the Practice

Green Campus Initiative: Building an Eco-Friendly and Sustainable Campus

Objectives of the Practice

To create an environmentally responsible campus by adopting sustainable practices across operations.

To minimise the institution's ecological footprint through resource conservation, waste management, and energy efficiency.

To cultivate environmental awareness and sustainable habits among students, faculty, and staff.

To comply with national and global sustainability standards, reinforcing the college's commitment to environmental stewardship.

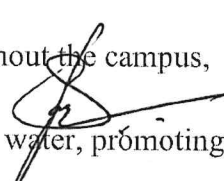
The Context

Aurora's PG College (MCA) recognised the importance of sustainability in today's world and the role educational institutions play in leading by example. With the rise of environmental challenges, the college committed to developing a green campus that conserves resources, reduces waste, and promotes eco-friendly practices. The college implemented a comprehensive Green Campus Initiative to promote a sustainable culture on campus and raise awareness about environmental conservation among the college community. Collaborations with organisations like ITC WoW (Wellbeing Out of Waste) for waste segregation and management and Sustainable Academe for green, environment and energy audits highlight this commitment to creating a positive environmental impact.

The Practice

The Green Campus Initiative incorporates several sustainable practices that target resource efficiency, waste reduction, and eco-friendly campus activities:

- **Paperless Office Policy:** To reduce paper consumption, the college has adopted a paperless policy for administrative processes, shifting to digital documentation and communication.
- **Plastic-Free Campus:** A strict plastic-free policy is enforced, reducing plastic usage on campus and encouraging the use of sustainable alternatives.
- **Campus Plantations:** Green spaces with trees and plants are cultivated throughout the campus, creating a refreshing environment and improving air quality.
- **Rainwater Harvesting:** Rainwater harvesting systems are in place to conserve water, promoting efficient water use and helping maintain the campus groundwater levels.
- **Compost Pit:** Organic waste from the campus is processed in a compost pit, creating natural fertiliser for campus gardens and contributing to waste reduction.


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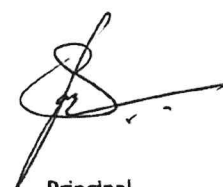
- **Sanitary Napkin Incinerator Machine:** A sanitary napkin incinerator provides hygienic disposal, supporting both environmental and health standards.
- **Energy-Efficient Lighting:** LED bulbs replace conventional lighting throughout campus buildings, conserving energy and reducing emissions.
- **Eco-Friendly Celebrations:** Festivals such as Ganesha Chaturthi, Diwali, and Holi are celebrated with environmentally conscious practices, promoting eco-friendly materials and reducing pollution.
- **Waste Segregation and Management (MoU with ITC WoW):** Through an MoU with ITC WoW, the college has implemented effective waste segregation and management systems, ensuring that waste is disposed of responsibly.
- **Environmental Audits:** The college conducts green, energy, and environmental audits through Sustainable Academe to assess and improve its environmental impact continuously.

Evidence of Success

The Green Campus Initiative has yielded tangible benefits, with reduced paper and plastic use, lower energy consumption, and improved waste management. The campus has become a model of sustainability, with students, faculty, and staff actively participating in eco-friendly practices. Partnerships with organisations like ITC WoW for waste management and audits by Sustainable Academe validate the institution's environmental commitment. The success of this initiative is reflected in the increased greenery, significant energy savings from LED bulbs, and widespread adoption of eco-friendly practices among the campus community.

Problems encountered and Resources required

- **Behavioural Shifts:** Encouraging students and staff to adopt sustainable habits required consistent awareness programs and workshops.
- **Waste Segregation Compliance:** Ensuring that all members of the college community consistently practice waste segregation took time and effort.
- **Maintenance and repairs:** Limited technical expertise on campus occasionally delayed maintenance or repairs, necessitating external support and adding to operational costs.



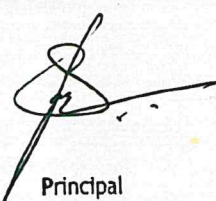
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Plastic-Free Campus Initiative

Aurora's PG College (MCA) is dedicated to minimizing plastic pollution on campus, focusing on the reduction and elimination of plastic bottles, straws, single-use plastic bags, and Styrofoam packaging.

Plastic bags pose significant risks to the environment because they are challenging to recycle and can cause severe health hazards for humans, animals, and the ecosystem. Many states and Union Territories in India have banned plastic to combat litter and environmental damage. While plastic bags have benefits in sectors like shopping and logistics, they also present major environmental threats. They pollute land and water, travel long distances by wind and water, and are made from non-renewable resources like petroleum and natural gas, contributing to global climate change.

To address this issue, the college has conducted awareness programs highlighting the dangers of plastic. Participants have been educated about alternatives such as jute bags, paper bags, and plant-based products, aiming to reduce plastic dependency and promote environmentally friendly options.


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RAIN WATER HARVESTING

Due to rapid increase in day-to-day demand for water among fast growing human population, there lies a great opportunity of harvesting rainwater to meet the scarcity of water and avoid destruction of the normal groundwater level. The boon of rainwater harvesting is that the unused or extra water can be sent down the aquifer to charge the groundwater level.

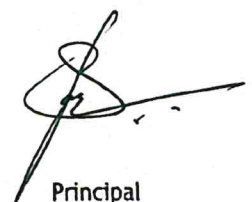
Rain water harvesting is an important environment friendly approach. It is a Green Practice having double benefit of keeping the groundwater level undisturbed and charging the aquifer. This green practice can be encouraged in the form of Community Development Program. Rain water and run-off water, stored in a planned way, can save the earth from soil erosion and flood and recharge the aquifers to increase the groundwater level. The extensive and unplanned use of groundwater has not only disturbed the natural water level but also has made the groundwater contaminated and unfit for use. Collecting and harvesting rainwater and run-off water would reserve the water for future generation. Rainwater harvesting is ecofriendly and economical. The cost of digging a catchment area can be saved by roof-top collection of rainwater. The catchments and settlement tanks reduce the ground heat and act as a natural cooler. The best part of the practice of rainwater harvesting, is that if unused, this water can be collected in natural ponds or artificial tanks and decanted to the ground thus charging the a aquifer.

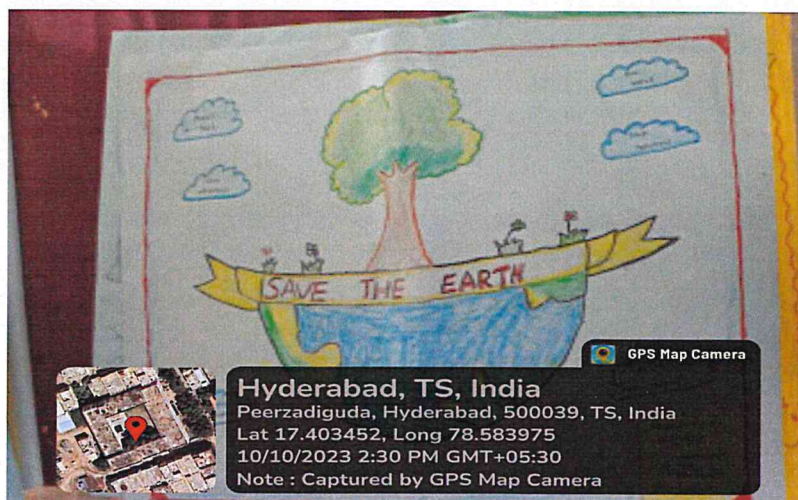
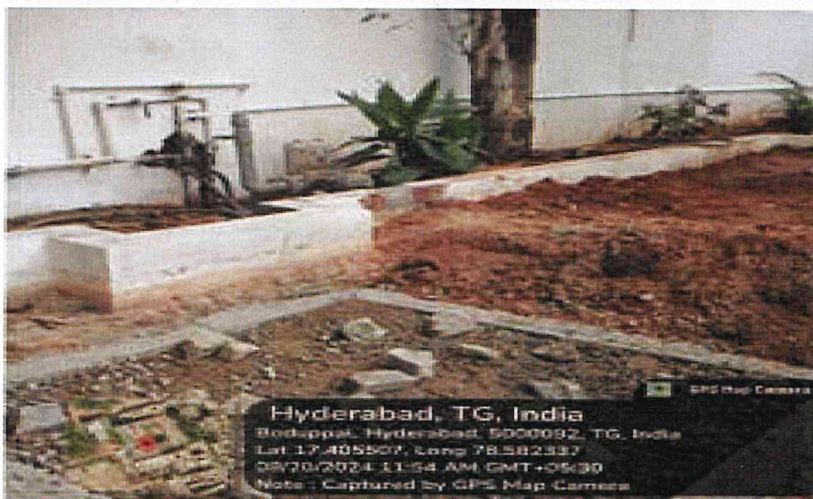
Objectives:

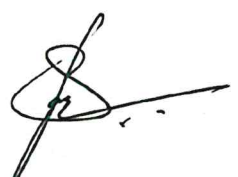
- To increase recharge of groundwater by capturing and storing rainwater, by rainwater harvesting from rooftop run-offs.
- To store the water for gardening & washing purpose

Practice:

In the Aurora's PG College (MCA) campus rainwater harvesting system has been installed in Block A, Block B and Block C. The roof runoff water is collected through network of pipe lines and stored in the wells. There are wells in the campus where the roof runoff water is stored. The remaining roof runoff water is allowed to infiltrate in the ground for recharge. The stored water is used for gardening and washing of vehicles.

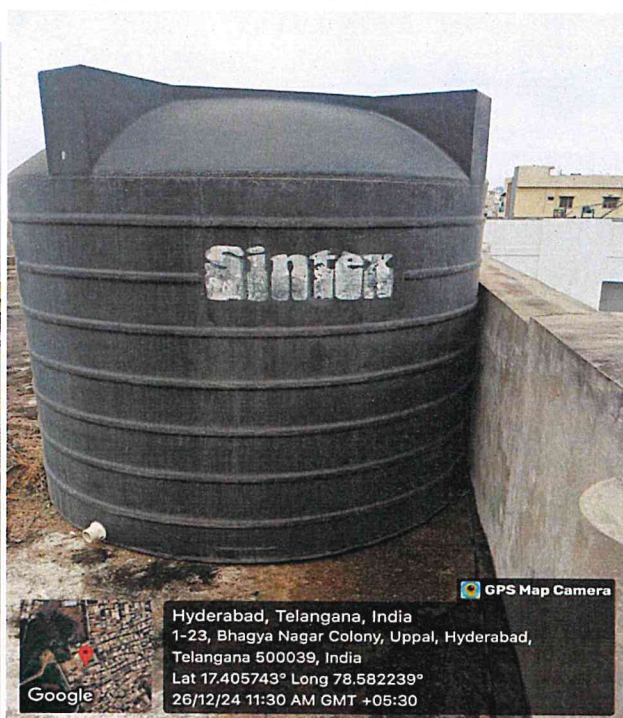

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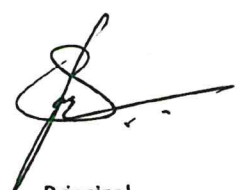


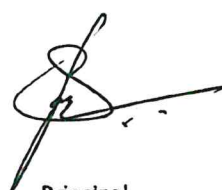
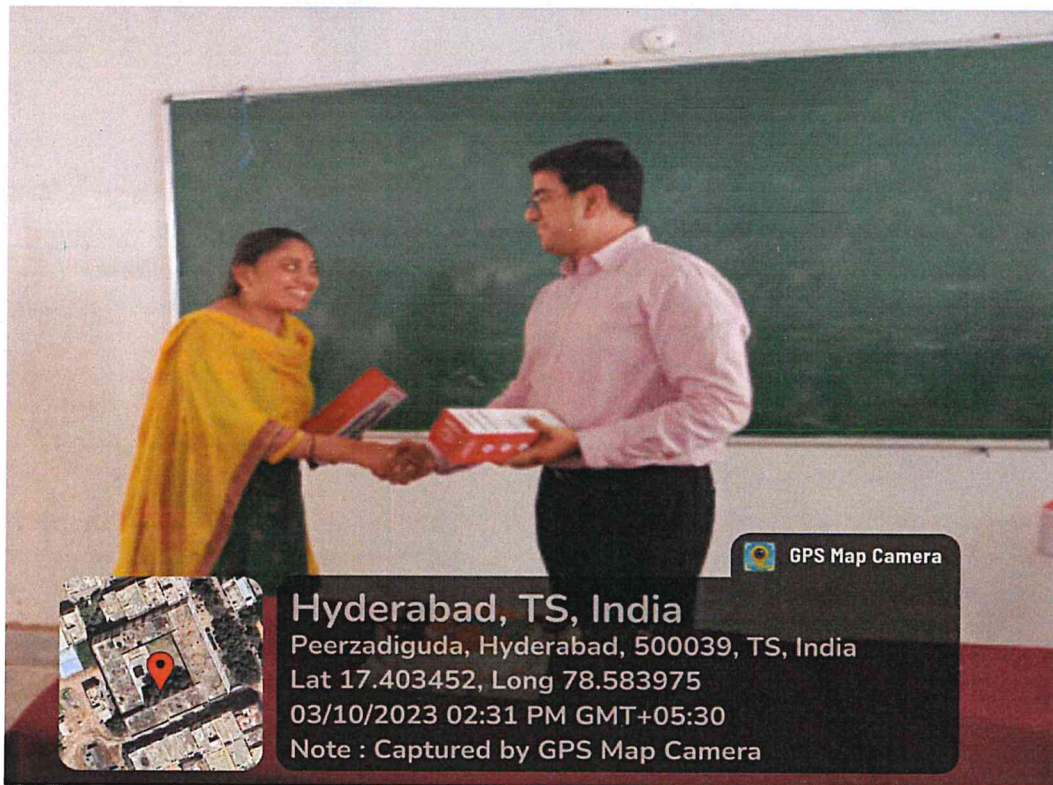

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CONSTRUCTION OF WATER TANKS AND BUNDS

The terrace water storage tank is generally constructed using brick masonry, which is placed on an elevated platform to provide a reserve supply of water for daily activities. The construction of a water storage tank with the use of brick masonry is a low-cost option for storing water. The size of the tank is governed by the requirement of the capacity of water storage. If the requirement is more, and more than one tank is to be provided at one place, a larger tank of combined net capacity may be built with suitable internal partitions to achieve an economical design.




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Green Campus

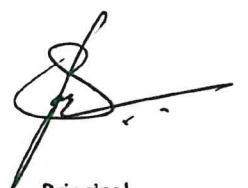
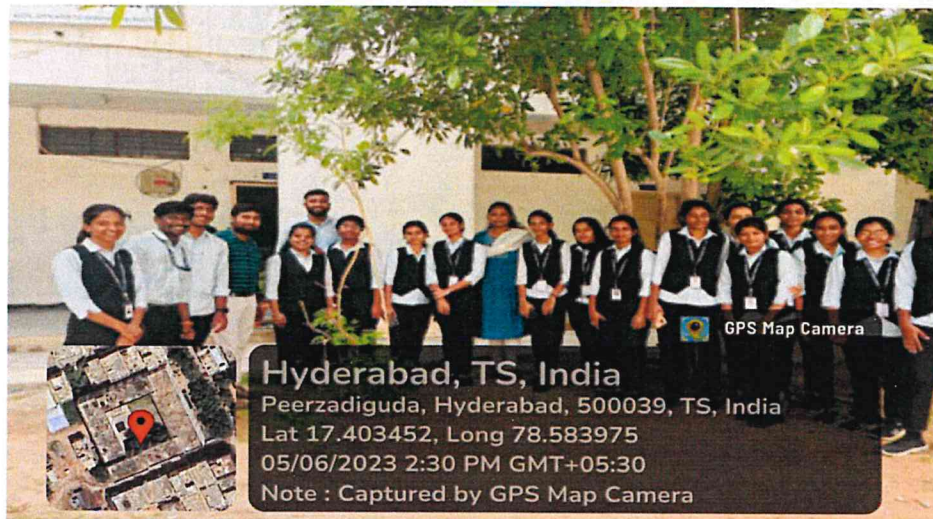
Our college is committed to promoting a green and sustainable environment. As part of this commitment, we are launching the "Green Campus Initiative," aimed at making our campus plastic-free and fostering eco-friendly practices among students, staff, and faculty. .

Campus Green Areas

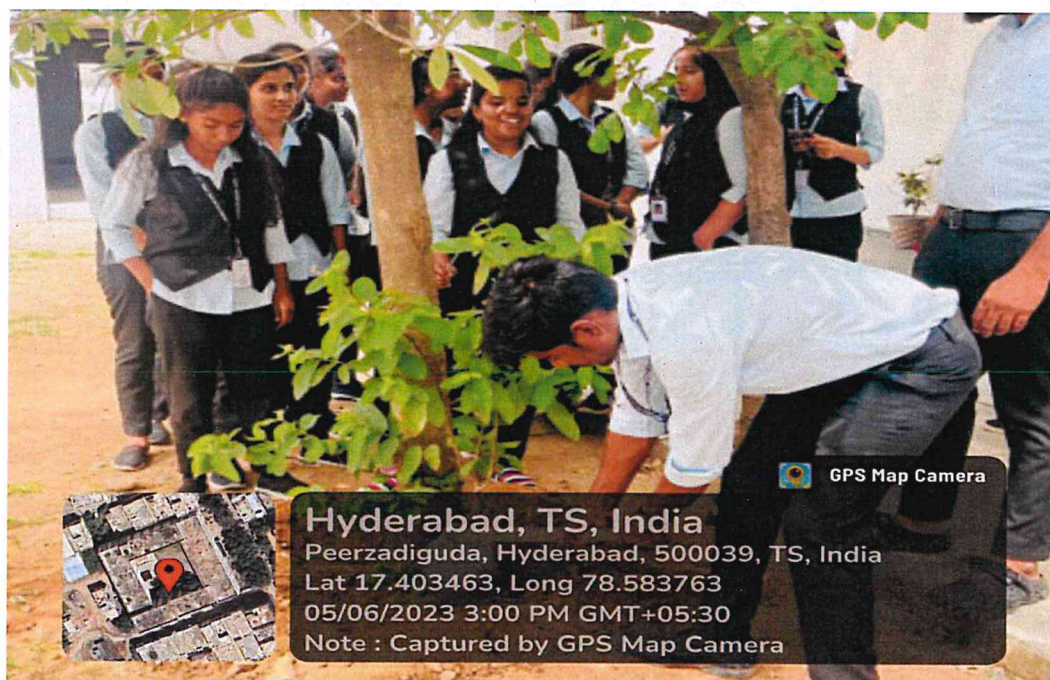
Campus features a main building surrounded by large trees. We are committed to maintaining and enhancing the campus's green spaces through various initiatives:

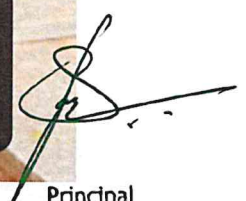
- **Tree Plantation Programs:** We organize tree planting events on campus . Since 2014, we have participated in the Telangana Harithaharam program, which promotes planting saplings annually to support an eco-friendly environment and increase oxygen levels on campus. This program includes a variety of indigenous ornamental and medicinal plant species.
- **Environment Day:** On June 5th each year, we celebrate Environment Day by planting trees to further enhance the campus's greenery.

Our efforts in waste management and green landscaping reflect our commitment to environmental sustainability and contribute to a healthier, more Eco-conscious Campus



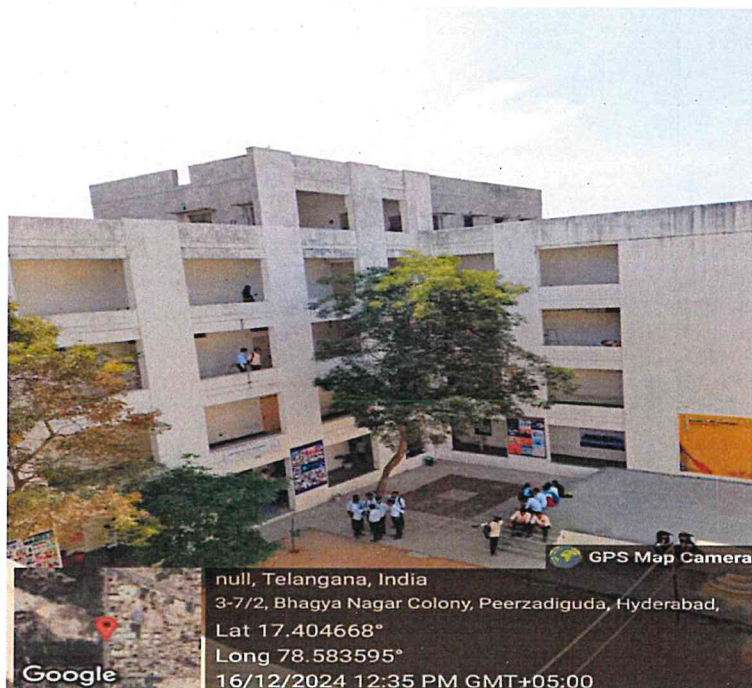
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AURORA'S PG COLLEGE (MCA)

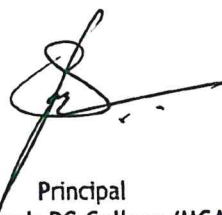
#1-118/11, Peerzadiguda, Uppal, Hyderabad-500 092 T.S.



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3-7/2, Bhagya Nagar Colony, Peerzadiguda, Hyderabad,
Lat 17.404668°
Long 78.583595°
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Auroras Post Graduate College, 1-118/10, Uppal Rd,
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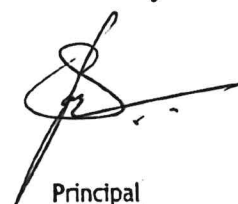
Waste Management

College students, staff, and faculty often lead busy lives and value convenience; as they go about their day rushing between activities and classes, the purchase of single-use products is often the most convenient choice. The consequence of this convenience comes in the form of high quantities of waste. In an era where societies around the world are becoming more conscious of the issues surrounding waste, students, faculty, and staff must be properly educated on proper waste management practices. Although the introduction of more recycling bins on campus may help increase recycling rates, a study noted that any recycling or waste management system depends not only on technical factors and availability, but also the motivation of the users to participate in the process. It can be understood that waste management education is essential in reducing waste, increasing diversion rates and encouraging environmentally friendly behavior.

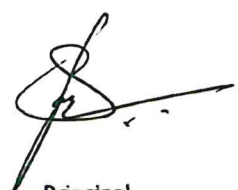
OBJECTIVES: The main objective of the solid waste management system in the campus is to promote the Environment Management and Conservation in the College Campus. The purpose of the current available system is

- To identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.
- To introduce and aware students to real concerns of environment and its sustainability
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
- To bring out a status report on environmental compliance.

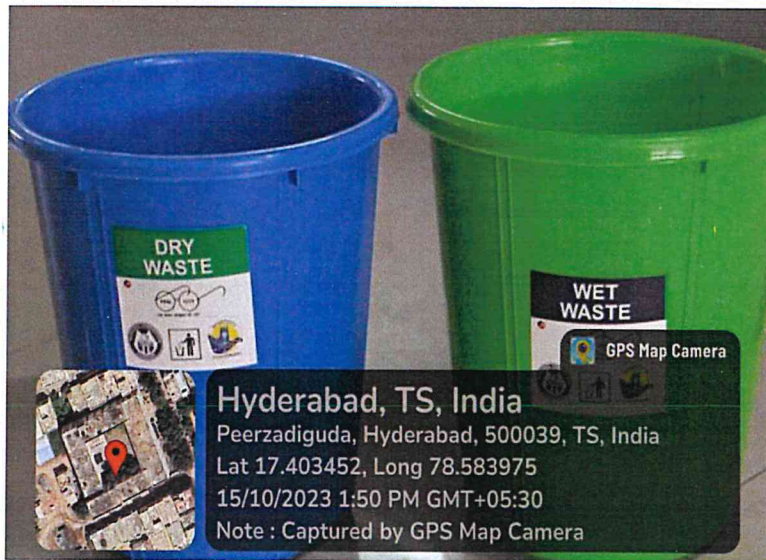
The institute has taken initiatives to segregate the waste at source which is the first and most important step in waste management Solid waste refers here to all non-liquid wastes. Solid waste can create significant health problems and a very unpleasant living environment if not disposed of safely and appropriately. If not correctly disposed of, waste may provide breeding sites for insect-vectors, pests, snakes and vermin (rats) that increase the likelihood of disease transmission. It may also pollute water sources and the environment.

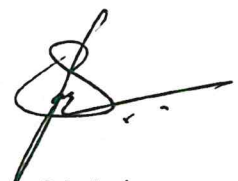


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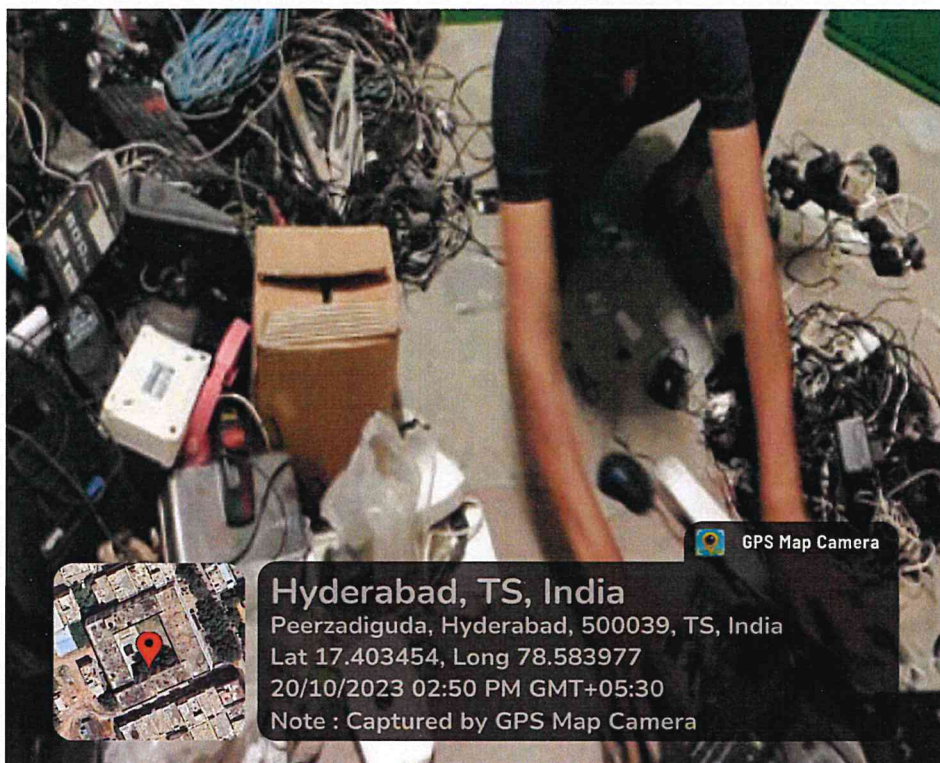
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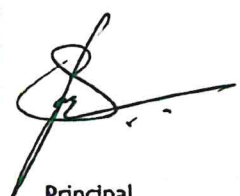



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E-Waste Management

1. Printer cartridges are refilled whenever possible; otherwise, they are returned to the manufacturer.
2. Paper waste is sold to Earth box for recycling.
3. We partner with Earth Box for the collection and recycling of e-waste. Earth-box specializes in computer recycling, e-scrap recycling, e-waste disposal, and dismantling.
4. Functional, but obsolete computers are repurposed for teaching Computer Application courses. Computer parts and peripherals are reused in other systems.
5. Damaged or non-functional electronic materials are returned to the manufacturer.
6. UPS batteries are exchanged with the vendor for a nominal cost as part of a buy-back offer.
7. Departments store e-waste, which is collected by a designated person from the management every six months and sent to recycling units.




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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is made and executed on 27th July 2021 at Hyderabad.

BY AND BETWEEN

Aurora's Post Graduate College (MCA) (Uppal) Hyderabad, its administrators, assigns and successors represented by Principal, Dr. Sanjay Kumar Padhy, 'who is duly authorized to sign and execute the MoU.

The First Part

AND

Earthbox Ventures Private Ltd, an authorized agent of ITC has its principal office situated at Plot No # 52, IDA Nacharam, Hyderabad 500076, and is represented by Mr.CH. Raju Managing Director referred to as "Earthbox"

The Second Part

Where as Aurora's Post Graduate College (MCA) (Uppal), has agreed to collect and give away dry recyclable waste including any kind of paper waste and old records generated in its School/college and from Swachh WOW Hyderabad Chapter.

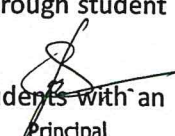
1. NOW THIS MOU WITNESSETH AS UNDER:

This is an agreement for a synergic alliance between AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL), and Earthbox for the social cause of recycling Dry Waste and Environment Protection through recycling.

2. Period of MOU: This MOU shall be for a period of five years commencing from the date of signing of this MOU.

3. Roles and Responsibilities of: AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL)

- a. To ensure source segregation of dry and wet waste at the school/college premise through its Teaching staff, housekeeping staff, and Students.
- b. AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL), will give away any kind of paper waste, dry recyclable waste, and old records to Earthbox at the price agreed mutually. Earthbox will pay Rs.15/kg for any kind of Paper waste and old records and Rs. 4/kg for Plastic Waste (pet bottles, polythene bags, etc.,) and E-waste.
- c. AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL) shall form Swachh WOW Hyderabad Chapter in the college with Student Volunteers and adopt nearby Schools/colleges or Colonies to promote Source Segregation through student volunteers.
- d. AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL) shall provide students with an Internship in WOW Program.


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- e. AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL) shall motivate students to bring dry recyclables like paper, plastic, metal, etc. from their homes and donate to the WOW initiative.
- f. AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL) will put up color-coded bins for waste segregation at different points on School/college premises.

4. Roles and Responsibilities of Earthbox:

- a. ITC-MARI will train the students and housekeeping staff on source segregation and through them inculcate the habit of source segregation among the other students.
- b. Earthbox will collect dry recyclable waste and old records from Schools/colleges and bring them to the Dry Resource Collection Centre (DRCC) without any spillage.
- c. Earthbox will organize the sorting of the dry waste into different categories, baling, and appropriate disposal of dry waste.
- d. Earthbox shall coordinate with ITC and undertake necessary measures for the dispatch of the sorted recyclables for recycling at its own cost.
- e. Earthbox will make payment to AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL) directly into their accounts for the dry recyclable waste collected against the accurate weighment and the type or category of the dry waste. The payment shall be made no later than 15 days from the date of purchase of dry waste from the waste collector. Franchisee on the request of AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL), may give New Notebooks and Stationery against the value of dry recyclable waste lifted.

5. Performance of Obligations

- a. The details laid out in this MOU, not with standing the essence and spirit of this MOU is an understanding between AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL), and Earthbox.
- b. Any notice or other communication under or in connection with this agreement shall be in writing in the English language and shall be delivered personally or sent by way of e-mail to the party due to receive the notice or communication at its address set out in this contract or such other address as either party may specify by notice in writing to other.

ADDRESS FOR COMMUNICATION:

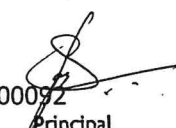
Following are the address to which all notices shall be sent:

For Earthbox:

Earthbox Ventures Private Ltd,
Plot No#52, IDA Nacharam, Hyderabad - 500076
Phone No. 9391629462, Email ID: www.earthboxventures.com

AURORA'S POST GRADUATE COLLEGE (MCA) (UPPAL),

1-118/10, Ghatkesar Rd, Mallikarjuna Nagar, Peerzadiguda, Hyderabad, Telangana 500092


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Uppal, Hyderabad-500092

6. Execution of this Agreement shall be deemed to be

- a) A confirmation by both the parties that no benefit, either in cash or kind has been provided by either party to the other party or any officer or employee, or any relative/ associate of any officer or employee of either party or any of their associate institutions/companies to enter into this Agreement, and
- b) An undertaking by both the parties not to provide any benefit, either in cash or kind to any officer/employee/relative/associate of any officer or employee of either party as reward or consideration either for entering this MOU or other matter relating to this Agreement.

7. Other Terms:

Force Majeure: Neither party shall be liable for damages for any delay or failure to perform its obligations here under, if such delay or failure is due to reasons beyond the control of the concerned party including without limitation, strikes, riots, wars, fires, epidemics, quarantine restrictions, unusually severe weather, earthquakes, explosions, acts of God or state or any public enemy or acts mandated by applicable laws, regulation or order, whether valid or invalid, of any Governmental body.

8. Dispute Resolution:

It is understood by both parties that this Agreement is for a social cause and not to make any profit out of the understanding. The Parties covenant that they will comply with all applicable laws and regulations in their conduct under this Agreement. Any dispute arising out of this Agreement shall be first attempted to settle amicably between the parties.

9. Arbitration

Any dispute which is not resolved amicably shall be finally settled by binding arbitration concerning the matters concerning the MOU with the Sole Arbitrator to be appointed by the mutual consent of both parties. The Parties agree that the decision or award resulting from arbitration shall be final and binding upon the Parties.

Pending the submission of and/or decision on a dispute, the Parties shall continue to perform their respective obligations under this Agreement without prejudice to a final adjustment by such arbitration award

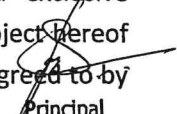
10. Governing and Jurisdiction:

This Agreement is subjected to the Jurisdiction of Courts at Hyderabad.

The parties shall agree that they will not make use of, disseminate, or disclose confidential information to any person, firm, or business. Furthermore, the existence of any discussions, negotiations, or agreements in progress between the parties shall not be released to any form of public media without the written approval of both parties.

11. Amendments

This Agreement and the Schedules together constitute a complete and exclusive understanding of the terms of the Agreement between the Parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless agreed to by all the Parties hereto and evidenced in writing.


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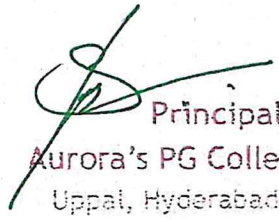
12. NOTICE /Termination

Any notice required to be given hereunder shall be given in writing at the address of each party set forth as below in this agreement or to such other address either party may substitute by written notice to the other. Either party may terminate this Agreement by giving 30 days written notice to the other party.

In witness whereof the parties hereto have signed this agreement on the day, month and year mentioned hereinbefore.

Aurora's Post Graduate College (MCA) (Uppal)

Earthbox


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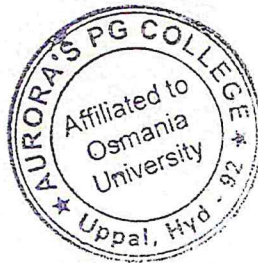
CH. Raju

MANAGING DIRECTOR

1-118/10, Ghatkesar Rd, Mallikarjuna Nagar,
Peerzadiguda, Hyderabad, Telangana 500092

Witness:

1.



2.


Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

GSTIN : 36AARFV9404G1ZP

Cash Bill / Tax Invoice C19140 35978324, 9603520009, 6305971390



VAISHNAVI MAA ENTERPRISES

Distribution for Mccoy Products

Dealers In : BLUESTAR, DAIKIN, LLOYD, O GENERAL

5-124, Buddha Nagar Colony, Boduppal, Mdl. Madipally, Medchal Dist.

10-39, G3, Peerzadiguda, Uppal, Hyderabad - 500039. email: vaishnaventerpriseshyd123@gmail.com

M/s. <u>Aurore & B. College</u>	Invoice No : 201
Address: <u>Peerzadiguda</u> <u>Uppal, Hyderabad</u>	Date : <u>20/05/23</u>
GSTIN: <u>Electric Equipment</u>	Transport / Driver Name :
	Vehicle No :

Sl.No.	DESCRIPTION OF GOODS	HSN CODE	QTY	RATE	AMOUNT in Rs.
1)	LED Tube lights - 40 Amp		200 Nos	800/-	1,60,000/-

	Total Invoice Value	1,60,000/-
	SGST @	% Incl
	CGST @	% Incl
	IGST @	% Incl
	Total Amount	1,60,000/-
	GST Payable in Reverse Charge	

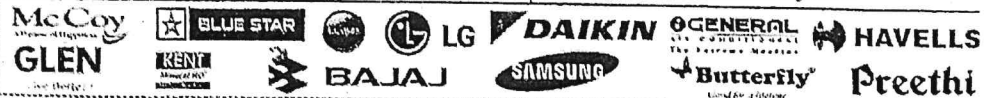
Rupees in words :

1. Goods once sold not to taken back.
2. Interest @24% p.a will be charged if the payment is not made with in the stipulated time.
3. Subject to "Hyderabad" Jurisdiction only E.S.O.E

Received the above material in the good order & condition

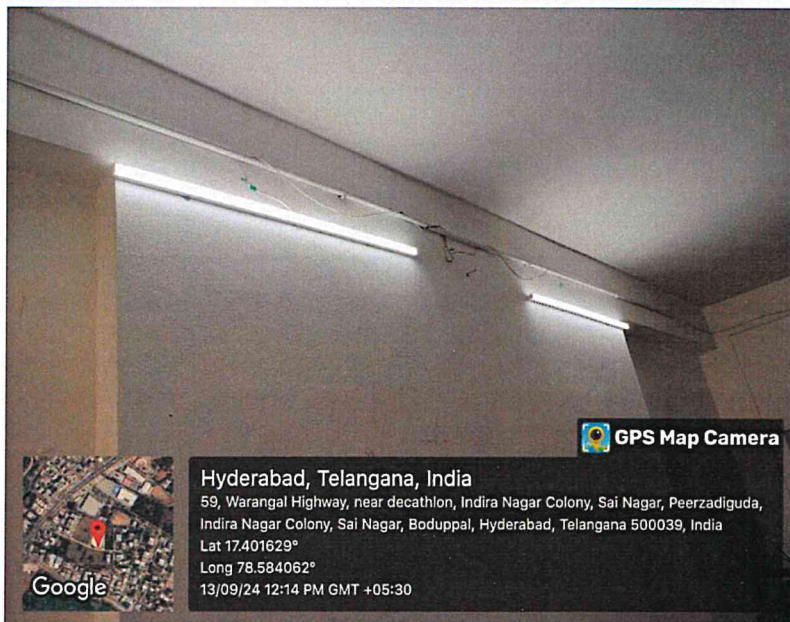
Receiver's Signature

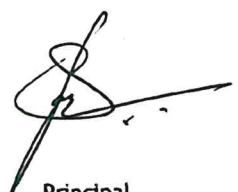
FOR VAISHNAVI MAA ENTERPRISES

Authorized Signature


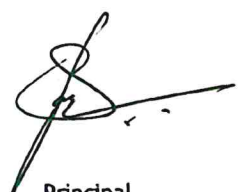
WATER PURIFIER, WATER SOFTENER, GEYSER, WATER DISPENSER, AIR CONDITIONERS, AIR COOLERS, MIXER, WET GRINDER, IRON BOX, RICE COOKERS, AIR PURIFIERS, WASHING MACHINES, REFRIGERATORS, LED TV, STP

Energy-Efficient Lighting: LED bulbs replace conventional lighting throughout campus buildings, conserving energy and reducing emissions.




Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

Eco-Friendly Celebrations: Festivals such as Ganesha Chaturthi, Diwali, and Holi are celebrated with environmentally conscious practices, promoting eco-friendly materials and reducing pollution.



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