

*Vidarbh Youth Welfare Society Amravati's*  
**Mahila Arts Commerce College,**  
**Chandur Railway, Dist. Amravati (MS)**

## **Green Book**

❖ **Energy Conservation:**

Energy conservation has been a top priority at our institute. Keeping this goal in focus green initiatives are undertaken.

The measures are being taken:

- A proposal for green infrastructural changes is being forwarded.
- Replacing ordinary incandescent light bulbs to compact fluorescent light. (CFL)/ LED bulbs, wherever possible.
- A simple but potent way of energy conservation.
- Unplugging after the charging of laptops & mobile devices to conserve energy.
- Mandatory initiatives are taken to create awareness about energy crisis, consumption and effects of carbon emission.
- Colourful posters and placards made by green soldiers on energy conservation are displayed in corridors, class rooms, computer labs, and office and other sensitive zones.
- Guest talks have been arranged or students & faculty on energy conservation, to avoid misuse of it. Small and minor steps viz. shutting down computers, when not in use, turning off electric appliances at day end are being practiced.

❖ **Water harvesting:**

Rain water harvesting system has been set up; with roof top harvesting. Water harvested by rain water harvesting technique is being used for watering gardens.

**Hazardous waste management:**

- Leaf litter from garden and campus waste papers, kitchen waste from home-eco dept. is preceded for vermicomposting and compost produced used for garden manure.

❖ **Plantation:**

NSS Tree plantation drive to offset carbon emission students are advocated to respect environment through tree plantations, plant sapling planted within & outside

- Students mentoring tree saplings.
  - University provided tree saplings for distribution and planting within campus.
- Integrating environment education course for B.A. Part II students is promoting increase of environmental awareness. In this context guest lecturers also have been arranged.

**Waste Management steps including:**

- Solid waste management
  - Liquid waste management
- E-waste management college's key operations has very less impact on the environment as the college is very conscious of generating less waste and recycling it by passing it through a system that enables the used material to be reused ensuring that less natural resources are consumed. The college has segregated waste into three parts: 1.Solid Waste 2.Liquid Waste 3.Hazardous Lab Waste Solid Waste: The waste is generated by all sorts of routine activities carried out in the University that includes paper, plastics, glass, metals, foods, etc. The waste is segregated at each level and source. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals. The block safai workers in each floor collect, clean, segregate and compile the waste in the dustbins provided at each floor. The floor dustbins are emptied in containers/dustbins provided for each block and is taken to the dumping yard provided by the college. The college has contacted an authorized vendor who collects the waste from the designated place, segregate them, recycles them and disposes them at the landfills authorized by the government. Liquid Waste: Liquid waste generated by the college are of two types: 1.Sewage waste 2.Laboratory and cafeteria effluent waste The above waste is treated through Sewage Treatment Plants (STPs) and Effluent Treatment Plants (ETPs) and the water is used for horticulture and flushing in toilets. The Lab & other Waste Disposal, a Standard Operating Procedure has been evolved for handling the hazardous waste disposal system.. e-Waste Management Flip flops, memory chips, motherboard, compact discs, cartridges etc generated by electronic equipments such as Computers, Radio, TV, Phones, Printers, Fax and Photocopy machines are recycled properly. Instead of buying a new machine buyback option is taken for technology up gradation. The e-waste generated from hardware which cannot be reused or recycled is being disposed off centrally through government authorized vendors. A rally on e-waste management was organized in the adopted village viz. Palaskhed.Home Economics Biodegradable waste management: Properly waste materials from laboratory are collected and placed for composting and then utilized for Vermiculature Vermiculture facility is created on the college campus. Biodegradable waste generated on the college campus is used to manufacture vermicompost. Such vermin-compost is used as manure for the plants on the college campus.

*Green audit. ● Promotion of eco-friendly campus. ● e-waste management*

The institute has conducted Green Audit of its campus and facilities. The copies of Green Audit report are provided to all Heads of the Departments. They are advised to communicate the observations in Green Audit report to the stakeholders of their department. IQAC of Mahila Arts Commerce College, Chandur-Rly has resolved in its annual meeting to focus on the issues of environment and its conservation.

The college has constituted Green Campus Initiative (GCI) committee, which has taken following initiatives to make the campus eco-friendly: (i) Organizing

workshops, seminars, conferences on environment related issues. (ii) Awareness rallies on environmental pollution. (iii) Conducting poster competitions, scientific model competitions, Essay competitions, Street plays, etc. (iv) Promoting use of Green Energy / non-conventional energy. (v) Recycling of water. (vi) Promoting water conservation measures like rainwater harvesting. (vii) Conducting add-on courses on waste management viz. Vermitechnology.

- Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads
- Plastic-free campus
- Paperless office
- Green landscaping with trees and plants

**Response:** The college is aware of its environment conservation responsibilities and embraces principle of sustainable development to ensure that any adverse environmental impact of its activities is minimized through:

**a. Aspect Impact Analysis:** The college has carried out detailed studies of environmental aspects.

Based on this study, significant impact areas have been identified such as paper usage, use of plastic and polythene, Transport, DG set, etc. Based on the analysis, Operating Control Procedures (OCP) like reuse, reduce and recycle are devised, monitored and implemented. In order to support Prime Minister's initiative "AAO CYCLE CHALAYEIN" and promote "Green Campus". . Students participate in

campaigns like "Adopt a Tree", "Plantation Drive", "awareness against deforestation", "conserve native species of plants and trees". The campus has green landscaping of plants and trees which covers 40% of the area, having varieties of plants and trees which includes Ashok, Gulmohar, Kadam, Maulsary, Neem, Eruka Palm, Snepra, Shesum, etc. The entire open area has been kept green through heavy foliage of grass, seasonal flowers, and trees and is maintained by horticulture department of the University.

**b. Water Conservation Measures:** All the water is treated and recycled for reuse for horticultural activities and flushing the toilets etc. The STPs, RO Water Plants and Effluent Treatment Plants are audited every year during the internal audit conducted by the University.

**c. Carbon Accounting for lowering the gases responsible for Green House effect:** All vehicles entering University have "Pollution Under Control" certificate. Campus strictly follows "No Smoking Zone" principle. College adopts Green Computing and uses VMware and Electronic e-Waste disposal is through approved R2 certified vendor. Amity has been awarded "Go Green Innovation". Environment Studies (EVS) is compulsory in second year of all UG programmes.

**Environment awareness is also a part of Human Values and Community Outreach** The birds of campus have been listed to inspire young minds to contribute to positive changes in their attitudes and behavior towards beautiful fauna and their habitat.

- ❖ **Rainwater harvesting:** The rainwater harvesting system installed on the college campus has enabled us to use rainwater collected on the rooftop of the college building, particularly in the rainy season. This has helped in reducing the use of water supplied by Municipal Corporation.

Green practices

Rain water harvesting structures and utilization in the campus Rainwater Harvesting facility consists of an elaborate network of rainwater harvesting wells spread all over the campus. • which means that no water is discharged outside the campus and all the water is treated and recycled for reuse for horticultural activities and flushing the toilets etc. This saves potable groundwater and supply of plant treated water by government agency. College strives towards developing water conservation and water efficiency through following strategies:

1. Promote water efficiency practices to all the college's stakeholders.
2. Monitor and minimize the s water College consumption.
3. Plants indigenous flora to reduce water usage.
4. Promotes planting indigenous trees in and around the University to reduce water usage.
5. Regularly reviews opportunities to install alternative water systems on campus wherever feasible.
6. Sustain implementation of innovative water-efficient technologies such as rainwater harvesting, reuse of water etc. Campus also maintains efforts of students, faculty and staff to implement sustainable water consumption system through the above mentioned interventions. The students' knowledge regarding the scope and operations of rainwater harvesting and conservation techniques used in our university are enhanced through Nature Clubs Campus. Self introspection sessions to analyze environmentally unethical practices.

Water harvesting: Rain water harvesting system has been set up; with roof top harvesting. Water harvested by rain water harvesting technique is being used for watering garden. • Adopting polythene free zone • Smoking free zone • making students environmentally aware • For taking initiatives in various environmental activities Nature club and eco clubs are set up. • Students are encouraged not to throw rubbish on floor or ground and appealed to use separate disposal bins for different wastes. • Staff and students are prohibited from bringing polybags in campus. • Responsible use of electricity and water and their conservation • Vermicompost project set up for homemade compost to Garden. •

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