

BEST PRACTICES – II

1. TITLE OF THE PRACTICE

Clean and Green Practices for Sustainable Environment

2. OBJECTIVES OF THE PRACTICE

Clean and Green Practices aim at achieving eco-friendly and sustainable environment within the College campus. The main objectives are listed below:

- Implementation of cleanliness agenda among stakeholders
- Initiating activities to protect the environment and to reduce carbon emission by using alternative energy resources
- Minimization of waste generation and safe disposal of the wastes
- Conserving water and recycling it
- Expanding the Greenery within the campus to ensure pollution-free air
- Re-modeling the campus into a smart campus
- Waste to energy conversion.

3. THE CONTEXT

Environmental protection / Go Green / Swatch Bharat Mission are the concept evolved after realizing the harmfulness of pollution which affects not only human health but also the ecological balance. Optimum use of natural resources and keeping our environment clean and green are necessary for healthy living and sustainable future. Converting the institute into clean and Smart Campus by engaging the stakeholders will facilitate dialogue and sharing of ideas amongst students, faculty and administrators towards Sustainable Development Goals. In this context, KEC has initiated various activities and awareness programmes to promote the mission of green campus.

4. THE PRACTICE

- Policies related to green initiatives and waste management are established and implemented
- Measurement and reduction of carbon foot prints by regulating the vehicle movement within the campus
- Plantations in large numbers within the campus and their efficient maintenance through a separate team with a horticulturist to keep the campus green. 2,958 trees are planted in the campus. The total green area inside the campus is about 82 acres with a Green area per capita of 39.09 sq. meters

- Recycling of waste water and using it for gardening helps to reduce consumption of water. Water conservation facilities are deployed across the campus to harvest rain water, monitor water levels in tanks and recycle the waste water. A 10-lakh capacity STP along with efficient water distribution system is functioning
- Solar power plants with 680kWp capacity at a cost of Rs.3.55 crore have been installed in the campus during the last five years. Solar street lights and solar water heaters installed in hostels and staff quarters account to the usage of solar energy
- Energy efficient equipment like LED bulbs, BLDC fans and Gresol pumps are in application to reduce the consumption of electric power. Sensor based energy conserving methods like water-level monitoring systems are installed to reduce the wastage of water and electric power
- Hygiene in hostel and canteen kitchens is ensured through clean and sterilized utensils, mechanization of food preparation and frequent cleaning of dining tables and floors through dedicated team. 1,148 modern toilets are available inside campus, which are all cleaned twice a day by dedicated staff
- Food wastes are crushed and sent to biomass gasifier plants for the production of biogas that is to be used as an alternate source for LPG
- Safe disposal of all types of wastes from the campus is carried out through proper segregation technique
- Through 17 clubs and cells, plantations and awareness programmes are being conducted every year to promote the importance of Go Green concept. Beyond campus activities are also undertaken by students and faculty regularly to promote the green practices in nearby communities also
- Air quality is measured daily and recorded to identify the emission of harmful gases
- Energy and environmental audits are conducted and possible issues are identified and rectified for establishing sustainable environment

5. EVIDENCE OF SUCCESS

Green practice at KEC has been recognized at national level and the college has received several awards:

1. AICTE Swachh Campus Ranking 2019 award for Cleanest Higher Educational Institutions in the Country
2. AICTE National Level “Clean & Smart Campus Awards – 2019”

3. AICTE certificate of appreciation for contribution to “Jal Shakti Abhiyan – 2019”
4. AICTE certificate of appreciation for contribution to “One Tree One Student” initiative – 2019

Energy saving achieved in terms of percentage of contribution is shown below:

Year	Total Consumed Electricity (Units)	Electricity consumed from the Solar Energy (units)	% of Contribution
2019-20	4100285	571398	13.9

- The reports of Green, Energy and Environmental audits portray the success of the green practices followed in the campus.

6. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED

- A huge investment is required to build up an alternate energy source.
- Continuous efforts are required to create awareness and to sustain the GO GREEN policy. Organizing programmes related to this theme of practice amidst heavy academic schedule is necessary.
- More number of labours / workers are required for the establishment and maintenance and retaining labours / workers of this category is challenging.

7. PLEASE ADD ANY OTHER INFORMATION THAT MAY BE RELEVANT FOR ADOPTING/ IMPLEMENTING THE BEST PRACTICE IN OTHER INSTITUTIONS

- To keep our environment pollution-free and to make it to be a place for healthy living of all species is necessary and it is the responsibility of all concerned. Educational Institutions are responsible to develop this kind of culture among all their stakeholders.
- Celebrating all major days related Environment – Environmental day, water day and so on to create awareness among the young minds about the need for sustainable environment.



Head of the Institution

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