

Sanketika Vidya Parishad Engineering College (APPROVED BY AICTE, AFFILIATED TO ANDHRA UNIVERSITY)

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POLICY	SVPEC-Policy No:14
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Policy Document	Environmental Audit
category	
Environmental	Programs have been undertaken by the institute for
Audit	plantation. The green belt is also maintained to reduce the
	pollution level by decreasing the carbon dioxide level.
	Every year on June 5 th World Environmental Day (WED) will
	be celebrating by inviting a special guest to elaborate impact
	of healthy environment on human life among students and staffs.
	As a part of curriculum, college has incorporated anyironmental related subjects to have environmental
	environmental related subjects to have environmental education.
	 Generated Solid wastes like waste papers, Blue books,
	vegetable
	matter and miscellaneous are systematically dumped into a
	earthen pit for natural decomposition instead of burning,
	thereby reduction in co_2 has achieved.
Health Audit	Every semester students are advised to undergone health
	check up in the health canteen facility provided inside the
	campus.
	Health Insurance card facility is provided to every student by
	the college during their stay.
	Blood donation camp also been conduct every year by NSS
	and by individual departments
Renewable Energy	Solar panels are installed in all the hostel buildings within the
and Water Audit	campus for hot water facility.
	Rain Water Harvesting (RWH) facility is provided to the
	hostel which is located inside the campus
Goals of Green	College has conducted a green audit with specific goals as:
Audit	1. Identification and documentation of green practices followed by
	college.
	2. Identify strength and weakness in green practices.
	3. Conduct a survey to know the ground reality about green
	practices. 4.Analyse and suggest solution for problems identified from survey.
	5.Assess facility of different types of waste management.
	6. Increase environmental awareness throughout campus.
	7. Motivates students, faculties and staff for optimized sustainable
	use of available resources.
Objectives of	1. To examine the current practices which can impact on
Green Audit	environment such as of resource utilization, waste management etc.

	 To identify and analyze significant environmental issues. Setup goal, vision and mission for Green practices in campus. Establish and implement Environmental Management in various departments. Continuous assessment for betterment in performance in green practices and its evaluation. To prepare an Environmental Statement Report on green practices.
Benefits of Green	There are many advantages of green audit to an Educational
Audit to an	Institute:
Educational	It would help to protect the environment in and around the computer
Institute	campus. ➤ Recognize the cost saving methods through waste
	minimization and energy conservation.
	Find out the prevailing and forthcoming complications.
	Impart environmental education through systematic
	environmental management approach and Improving
	environmental standards
	 Financial savings through a reduction in resource use Empower the organization to frame a better environmental
	performance.
	Development of ownership, personal and social
	responsibility for the College and its environment
	It portrays good image of institution through its clean and
	green campus.
Green Audit, a Tool for	The modernization and industrialization are the two important outputs of twentieth century which have made human life more
Environmental	luxurious and comfortable. Simultaneously, they are responsible for
Protection and	voracious use of natural resources, exploitation of forests and
Conservation	wildlife, producing massive solid waste, polluting the scarce and
	sacred water resources and finally making our mother Earth ugly
	and inhospitable. Today, people are getting more familiar to the
	global issues like global warming, greenhouse effect, ozone depletion and climate change etc. Now, it is considered as a final call
	by mother Earth to walk on the path of sustainable development.
	The time has come to wake up, unite and combat together for
	sustainable environment. Considering the present environmental
	problems of pollution and excess use of natural resources, Hon.
	Prime Minister, has declared the Mission of Swachch Bharat
	Abhiyan. Also, University Grants Commission has mentioned 'Green Campus, Clean Campus" mission mandatory for all higher
	educational institutes. As environmental sustainability is becoming
	an increasingly important issue for the nation, the role of higher
	educational institutions in relation to environmental
	sustainability is
	more prevalent. Green Audit is the most efficient ecological tool to
	solve such environmental problems. It is a process of

	resource use as well as waste generation. Gre in promotion of enviro	nentally important con cess the regular enviro outside of the conce act on surroundings. O ch institutes to accou wastewater, solid was en Audit process can nmental awareness a eate consciousness tov een audit one can get o	nponents in a specified onmental activities are rned sites which have Green audit can be one nt their energy, water te, e-waste, hazardous play an important role nd sensitization about wards ecological values
Waste Audit Disposal	level of environmental Contributing to the energy, helping to pro will also reduce our im carbon emissions asso and obtaining new	g colleges and univer- performance. By reusi- conservation of natu- tect the environment, pact on the environm- ociated with both disp ones. SVPEC adopts en- necessary actions ecycling, carbon neut ted are processed as o e college campus and	sities achieve a higher ing or recycling we are: aral resources, saving Reducing landfill. We bent by minimizing the bosing of old products nvironment friendly such as — energy ral etc. The biological organic manure for the the other solid waste
Disposable Audit	Type of WasteE-wasteQuantity:Monitor —Desktop —Solid Waste1. Bio-degradablea. Organic Wasteb. Inorganic Wasteb. Inorganic wasteChemicals, glassc. Domestic waste	Disposal Method Collected in separate bin/ stores. Mass collection of organic waste will be dumped into the composed pit Earthen pits Cattle feeding	Remarks
	d. Electrical waste Tube lights, bulbs, wires, electrical stoves	Collected in separate bins	

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	e. News Papers, waste papers, blue	Sold for recycling	Collected by local municipal authorities
	f. Metal scraps Steel	Sold for recycling	Collected by local municipal authorities. Net wt — For Rs :
	g. Timbers Furniture scraps	Store room	
	h. Resins Fuel, oil, Greece	Earthren pits	
	2.Non-Bio- degradable a. Sanitary Waste	Incinerator	Provided to ladies Hostel
	b. Plastic Waste	Dust bins	Collected by municipal Authorities
	3. Scrap equipment	Stores	Collectively sold in a Mass
	4. Constructional waste Concrete, Bitumen	Dumping in a specific place in the laboratory	Used for land filling within the campus
Preventive Measures by College	using more one side pa practice. 2) Answer sheets, old b after completion of the 3) Metal scrap is segre and sent for recycling. 4) Use of ICT is saving saves number of trees 5) E-waste generated a the management as pe 6)Hazardous waste g experiments in laborat properly	apers for printing and v ills and confidential re- eir preservation period gated separately by re- large quantity of pape per year and reduces (at College send to recy er the standard proced enerated in solid an ory of Environmental E	espective departments r use in the campus. It Carbon foot print. ycle and reuse through ures. d liquid state during Engineering is disposed
Noise Level in Campus	to utilize the co → If students are to minimize th campus. → Also students	llege bus facilities. using their own vehic ie speed limit and no are advised to r	local city, are advised les are strictly advised ot to horn inside the not to use vehicles to minimize the air

	beside the car environment, a from the road	/ijayawada — Visakha npus, no noise pollutio as the buildings are nea and also the tall trees i or noise transmission.	on harms the learning rly about 500mts away
Air Quality Audit	students, faculty and s college campus are vehicular emissions. Department of Civil Ambient Air Quality Pollution Control Boar regular basis are Sulp Suspended Particulat Particulate Matter (RS quality parameters a Delhi, suggesting amb As an academic insti- noise should be below on the campus is als	demic institute is very i staff of college. The air p wind storm, pollen All these pollutants a Engineering as per g Monitoring Program of, New Delhi. The air po hur dioxide (SO ₂), Oxid e Matter (SPM) and I SPM) by High Volume Sa re within the standard bient air quality of univ tute college comes univ tute college comes univ tute college day time o measured and found	ollution sources in the grains, natural dust, are measured by the uidelines of National (NAAQMP) of Central ollutants monitored on es of Nitrogen as NOx, Repairable Suspended ample (HVS). All the air I limits of CPCB, New ersity campus is good. der silent zone where e. Therefore, the noise d within the standard
Results of Analysis	Locations	Month	Near SVPEC
of Ambient Air	PM 2.5(14/M ³)	July	
Samples	PM io(tig/M ³)	-	
	S0 ₂ (.tg/M ³)		
	NO ₂ (pg/M ³)		
1			
	PM 2.5(14/M ³)		
	PM io(tig/M ³)		
	PM io(tig/M ³)		
Ambient Noise	PM io(tig/M ³) S02(μg/M ³) NO ₂ (pg/M ³)	f noise on college is a	utomobile noise. The
Ambient Noise Monitoring Status	PM io(tig/M ³) S02(μg/M ³) NO ₂ (pg/M ³) The major source o human communicat	ion and transportation	n are producing high
	PM io(tig/M ³) S02(μg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building	ion and transportation construction and ex	n are producing high Acavation work can
	PM io(tig/M ³) S02(μg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building also cause conside	ion and transportation construction and ex rable noise emissio	n are producing high xcavation work can ns. Ambient noise
	PM io(tig/M ³) S02(µg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building also cause conside monitoring was car	ion and transportation construction and ex erable noise emissio ried out in different a	n are producing high xcavation work can ns. Ambient noise reas of SVPEC like at
	PM io(tig/M ³) S02(µg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building also cause conside monitoring was car Main gate, Departm	ion and transportation construction and ex rable noise emissio ried out in different an nents, workshop, Cante	are producing high ccavation work can ns. Ambient noise reas of SVPEC like at eens, admin building.
	PM io(tig/M ³) S02(µg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building also cause conside monitoring was car Main gate, Departm The sampling was car	ion and transportation construction and ex rable noise emissio ried out in different an nents, workshop, Cante rried out using calibrate	are producing high accavation work can ns. Ambient noise reas of SVPEC like at eens, admin building. ed Sound Level Meter
	PM io(tig/M ³) S02(µg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building also cause conside monitoring was car Main gate, Departm The sampling was ca (HTC SL-1352) by lo	ion and transportation construction and ex rable noise emissio ried out in different an nents, workshop, Cante rried out using calibrate garithmic scale in Dec	are producing high accavation work can ns. Ambient noise reas of SVPEC like at eens, admin building. ed Sound Level Meter ibels (dB). The noise
Monitoring Status	PM io(tig/M ³) S02(µg/M ³) NO ₂ (pg/M ³) The major source o human communicat level sound. Building also cause conside monitoring was car Main gate, Departm The sampling was ca (HTC SL-1352) by lo readings were colled	ion and transportation construction and ex rable noise emissio ried out in different an nents, workshop, Cante rried out using calibrate	are producing high ccavation work can ns. Ambient noise reas of SVPEC like at ens, admin building. ed Sound Level Meter ibels (dB). The noise pus and calculated
Monitoring Status Ambient Noise	PM io(tig/M³) S02(µg/M³) NO2(pg/M³) The major source o human communicat level sound. Building also cause conside monitoring was car Main gate, Departm The sampling was car (HTC SL-1352) by log readings were collect Sr. Location	ion and transportation construction and ex rable noise emissio ried out in different an nents, workshop, Cante rried out using calibrate garithmic scale in Dec	are producing high accavation work can ns. Ambient noise reas of SVPEC like at eens, admin building. ed Sound Level Meter ibels (dB). The noise
Monitoring Status	PM io(tig/M³) S02(µg/M³) NO₂(pg/M³) The major source o human communicat level sound. Building also cause conside monitoring was car Main gate, Departm The sampling was car (HTC SL-1352) by log readings were collect Sr. Location No.	ion and transportation construction and ex- erable noise emission ried out in different an eents, workshop, Cante rried out using calibrate garithmic scale in Dec ted in the college camp	are producing high accavation work can ns. Ambient noise reas of SVPEC like at eens, admin building. ed Sound Level Meter ibels (dB). The noise ous and calculated
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Reducing the Carbon Footprints	 Installation of solar panels or solar energy generation devices will reduce the electricity footprint of the campus. Terrace of each building can be utilized to produce electricity from tilt able solar modules. The Green computing or E- work is helping the organization to reduce footprint very effectively. The solar energy-based street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be an ideate and a street lamps on campus should be a street lamps on street la
	 provide to reduce carbon footprint. The awareness should be made among the faculty, students and other employees regarding Clean Development Mechanism (CDM) to reduce the consumption of electricity and natural resources.
Plastic Campaign	Plastic waste has emerged as one of the biggest environmental
Free	concerns adversely impacting the soil, water, health and well-being of citizens at large. As an educational institution, SVPEC has a unique spread and influence to educate the students, staff and faculty on the need for avoiding usage of plastics. In this regard, the following guidelines will be adopted within the campus with immediate effect. Use of single-use plastics (bottles, wrappers, packaging, bags, cups, and plates, tumblers made of plastic or polystyrene) is banned in canteens, Academic blocks, administrative offices, laboratories, shopping complexes in the institution's premises and hostels, etc. All the students, staff, and faculty are mandated to avoid bringing non-bio-degradable plastic items to the institution. All the students, staff, and faculty members are advised to avoid bringing plastic items to campus and make our campus 'Plastic- Free'. These guidelines are in line with UGC regulations for Higher Education Institutions (HEI's) and shall be followed mandatorily.
Recommendations	The green audit reports assist in the process of attaining an eco- friendly approach to the sustainable development of the college. Hope that the results presented in the green auditing report will serve as a guide for educating the college community on the existing environment related practices and resource usage at the college as well as spawn new activities and innovative practices. A few recommendations are added to curb the menace of waste management using eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus and thus sustainable environment and community development. Following are some of the key recommendations for improving campus environment: 1. Establish rain water harvesting systems for each building.
	2.Install display boards to control over exploitation of water

	3.Conduct more save energy awareness programs for students and
3	
	staff
	4. Observe a power saving day every year.
	5. Observe a no vehicle day once in a week.
	6. A model Vermi composting plant to be set up in the college
	campus.
	7. Establish a plastic free campus. Avoid paper plates and cups for
	all functions in the college.
	8. Establish a system of carpooling among the staff to reduce the
	number of four wheelers coming to the college.
	9. Discourage the students using two wheelers for their
	commutation.
	10. Reuse of glass bottles for storage of chemicals should be
	encouraged or the bottles should be sent to again suppliers for
	reuse.
	11. Electrification of street lights by solar power should be
	encouraged.
	12. Installation of sensor based electrification items like fans,
	lights, etc. can save electricity.
	13. Installation of solar panels and rain water harvesting system to
	every terrace of building will be useful in conserving the natural
	resources. 14.Regular check-ups and maintenance of pipes, overhead tanks
	and plumbing system should be done by engineering section to
	and plumbing system should be dolle by engineering section of
	reduce overflow, leakages and corrosions
	15. Awareness program on use of bicycles/ EV to reduce carbon
1	footprint.
	16. IoT based sensors and control for intelligent energy
	management system in buildings.
	17. An environmental policy document has to be prepared with all
	the recommendations and current practice carried by college.
	18. A frequent visit should be conducted to ensure that the
	generated waste is measured, monitored and recorded regularly
	and information should be made available to administration.
	19.The college should develop internal procedures to ensure its
	compliances with environmental legislation and responsibility
	should be fixed to carry out it in practice
Related/	Guidelines for Autonomous Colleges, AICTE, AQAR & NAAC
Supportiv	N N
Documen	
Responsil	
	L Dringing
Functiona	in Principal
Reporting	al Principal g rative Administrative Officer n Administrative Officer Administrative Officer Part Parte
Administ	rative Administrative officer
Reporting	n Administrative Officer
Custodia	

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