

Executive Summary (Green and Energy Audit)

Swiftly evolving urbanization and economic aspects at local, regional and global level has resulted in several environmental and ecological predicaments. On this backdrop it becomes indispensable to accept the system of the Green Campus for the institute which will pave a way to sustainable development.

KITS is deeply concerned and absolutely believes that, there is an urgent need to address these fundamental problems and reverse the trends. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy, Energy Policy & Environmental Policy adopted by the institution.

The methodology included: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations.

It works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. With this in mind, the specific objectives of the audit was to evaluate the capability of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student health and learning college operational costs and the environment. The criteria, methods and recommendations used in the audit were based on the identified risks.

Green Audit Summary

Sl.NO	AREA	OBSERVATION	REMARK
1	Solid waste Management	Color coded waste bins are placed separately for dry and wet waste, Organic wastelike leaves, food waste etc	Good imitative taken by our college towards solid waste Management System.
2	Liquid waste Management	Rain water harvesting is used to recharge the ground level water. Waste water is re used for watering plants	Good imitative taken by college towards Water Conservation.
3	Plastic free campus	College is taking initiative by displaying banner about awareness of plastic free campus.	Good initiative by college towards to implementing Plastic Free Campus.
4	E- waste Management	E-waste is inspected and useful components are re-used wherever necessary, end of life products are handed over to agency	Needs improvement

Energy Audit Summary

Sl. no	Equipment	Proposed action	Result for proposed action
1	Lighting equipment 40W	Replace 72W conventional light with 18W LED Tube light	Total no. of presently operated-157Nos Total no. of light fitting to be replaced=157Nos Total energy consumption =1627.67KWH Expected Energy Consumption=406.994KWH Total energy Saved per month=1220.8KWH
2	Fan System	Replace present ceiling fan consuming 60Wwith 40W. In the campus where usage is high this conservation measure will produce good saving	Total no. of fans in the campus=761Nos. Total no. of fans used in campus =761NosNo. of fans to be replaced=761Nos The total current consumption= 8766.22KWH The expected fan consumption =5844.48KWH Total KWH saved per month=8766.22-584448=2922.24KWH