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7.1.6. QUALITY AUDITS ON ENVIRONMENT AND ENERGY ARE REGULARLY UNDERTAKEN BY THE INSTITUTION

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REPORTS ON ENVIRONMENT AND ENERGY AUDITS SUBMITTED BY THE AUDITING AGENCY

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ACADEMIC YEAR 2019-2020

AUDIT REPORT

Date:20/01/2020

This Report contain Green audit, Environment audit and Energy audit carried out at JNN Institution of Engineering, Chennai – Periyapalayam Highway, Thiruvallur, Tamilnadu for the Period: Jan-2019 to Dec-2019

Assessment Team:

(Internal)

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ACKNOWLEDGEMENT

We thank Hon'ble Founder & Chairman Shir S. Jayachandran and Vice Chairman Mr. Naveen Jayachandran for assigning this important work of Green, Environment and Energy Audit.
We appreciate the cooperation extended to our team during the entire process.

Our Special thanks are due to:

Dr. G. Gunasekaran, Principal

Mr. C.R Ravisankar, Administrative Officer

For giving us necessary guidance and inputs to carry out this very important exercise of Green, Environment and Energy Audit.

Director
BMQR Certifications Pvt Ltd
Chennai

INTRODUCTION

Green Audit aims to analyze the environmental practices within the institution, which will have adverse impact on the eco-friendly ambience, by identification, recording, reporting and analyzing components of environmental diversity of the institution. The process of Green audit enables the institution to determine how and where they are using the most energy or water or other resources and provide a direction on improving the condition of environment and reveals the way in which an institution can reduce energy consumption, water use and reduction in emission of carbon dioxide in the environment. The Institution can then consider how to implement changes and make savings through reduction of resource use.

Green audit also creates health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. Thus, it is imperative that the institution evaluate its own contribution towards a sustainable future.

Green audit is assigned to the criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India which declares the institution as Grade A, B or C according to the scores assigned during the accreditation.

METHODOLOGY

In order to perform Green, Environment and Energy audit, the methodology included different tools such as physical inspection of the campus, observation, review of the documentation, interviewing key persons, data analysis, measurements and recommendations.
The study covered the following areas to summarize the present status in the campus:

1. Water management
2. Waste management
3. Green area management
4. Biodiversity conservation
5. Energy consumption patterns

OBSERVATIONS AND RECOMMENDATIONS

1. Water Management:

This indicator address water consumption to determine the use and hence improving the efficiency of its use.

Observations

The institution has installed Sewage Treatment Plant (STP)

Rain water harvesting system is available

Recycled water is used for plantations.

Recommendations

Water performance evaluation report to be maintained

Effective irrigation techniques such as drip/sprinkler can be used for plantation

Water fixtures to be frequently checked for any leakages for any loss of water

STP to be maintained and output water condition to be monitored

2. Waste Management:

This indicator address waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc.

Observations

The waste management is well organized in the Institution

Food waste is sent to ashram

Buffet system is in place for effective food distribution in canteen/mess

Don't waste food poster is placed inside canteen/mess

Communication is made with respect to minimize/prohibit the use of plastic's inside the campus

Recommendations

Re use construction waste, paper waste

Dispose e-waste in an environmentally friendly method

Place different category of dustbins as per the waste generated and ensure its accessibility to everyone inside the campus

3. Green area management:

This indicates the plants, greenery and sustainability of the campus to ensure the available practices.

Observations

Plantation is done surrounding the institute

Institution is maintaining the existing and also added plantation to the landscape environment

Recommendations

Place "No Smoking, No Tobacco" poster within the campus area

Promote tree plantation drive and awareness through lecturers, conference etc

Take photograph yearly on the development green areas

4. Bio diversity conservation:

This indicates the extent of flora and fauna inside the campus and initiatives adopted by the institution for maintenance and conservation

Observations

Garden and lawns are well maintained

Campus is lush green with plantations of trees, shrubs

Recommendations

Promote sustainable activities such as beach clean-up, cleaning area around college

Control the use of Hazardous substance such as in cleaning chemicals used within the campus

Botanical garden with wide variety of plants can be planted

Organizing bio diversity events

Plantation on important days such as "environment day"

Check pollution level within the campus periodically

5. Energy consumption patterns:

This indicates the existing energy consumption pattern, setting reference points and areas of improvement

Observations

Solar plant is installed to meet certain energy use requirements

Old bulbs are replaced with LED bulbs

Automatic on/off for Street light is set

Recommendations

Update equipment's in the campus facility as per needs

Ensure adequate natural lights in the classroms

Solar plant maintenance checklist to be implemented

Electricity awareness posters to be pasted near all switch boards indicating to "Turn off light, fans when not in use"

Institution can implement and get certified on Energy management system certificate (ISO 50001)

END OF REPORT