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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 2016-2017

AUDIT REPORT

Date: 18/01/2017

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-2016 to Dec-2016

Assessment Team:

(Internal)

Dr. P. Karthik, Principal

Mr. C.R Ravisankar, Administrative Officer

Mrs. Tharakeswari V, Associate Professor, Department of Science & Humanities

(External)

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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. P. Karthik, 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

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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)

Drinking water is dispensed through water coolers

Recycled water is used for plantations.

Plantations placed inside the block in such way that it receives rainfall

Recommendations

Can employ water free urinals

Use smart irrigation system

Water awareness can be conducted periodically

Plumbing and water related accessories maintenance check to be carried out

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

Reusable plates are used

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

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

Disposal of waste is communicated to all staff and students inside the campus

Recommendations

Promote awareness on recycle, reuse of waste

Minimize the use of paper

Ensure wastes are disposed as per norms/local law/regulation

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

Install biogas plant

Implement waste management policy

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

Roof top irrigation can be planted

Plantation can be done inside the blocks as per the space available

Take photograph yearly on the development green areas

Organize/Promote tree plantation drive

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 and buy recycled, reused products

Use biodegradable and non-toxic chemicals within the campus

Native plants can be planted

Increase green cover area

Environment friendly manure/pesticides to be used

Botanical garden with wide variety of plants can be planted

Create awareness on biodiversity and its importance for everyone in the campus

5. Energy consumption patterns:

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

Observations

General awareness on electricity is orally communicated

Most Classrooms has adequate natural lights

Recommendations

Minimize the use of lights during day time, except when it is needed utmost

Sensor can be installed at possible place

Solar plant can be installed

Poster on turning off electricity can be pasted

Record energy consumption data/pattern on individual block/room for better control

END OF REPORT