Development of Green libraries: an overview

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Abstract

The green library or sustainable library is a modern library system that uses of natural resources with Friendly environment. It means use of natural resources, renewable resources, reduces the non-renewal resources, pollution free and less maintaining cost of the libraries, the need of the study is to provide a holistic approach and understanding the concept of green or sustainable libraries. In the present scenario developing countries have been replacing their present library systems to green library systems, the concept of green library origin in the year of 1990's after that the awareness of the green library is day by day increasing throughout the world. This article deals with the concept of the green library, objectives and features, discuss the review of the recent publications and elements of green library.

Keywords: Green library, Sustainable library, Green library systems, Natural resources, Concept of green library and Libraries and Green librarianship

1. Introduction:

In the present scenario the concept of library systems are changing with the advancement of science and emerging technology. In the present days developing country have been discovering fulfill their endless demand. The green or sustainable libraries are quietly getting popular in the world. Because changes are an Achievement, Invention, Replacement and Innovation of the system, hence majority of the countries have been transforming their library building structure into green environment, Maximizes use of the natural resources, use of the renewable resources, reduces the non-renewal resources, pollution free and free maintaining cost of the libraries. Hence, the word Green is a color glimps on the mixed with between blue and yellow, it is indicating as a great and good healthy survives. In the concept of green environment,

LIS professionals should make good decisions and take necessary efforts to use of greenish their libraries like the green library movements. Majority of the National and International Institutions are offering assistance in making libraries much more environmentally and friendly. However, Managements, Library Professionals, Librarians, library users and the government should take action and actively voluntarily participate in the revolution of green library movement to ensure its great success.

2. Review of Literature

Vasanthi (2019) has highlighted the efforts of leading institutions or organizations towards an eco-friendly environment, to develop the innovated standards for the betterment, role of a responsibility and involvement of librarian in green library, features and benefit of green library, Initiatives in India and other countries. **Manna et al. (2019)** have found how far University Libraries in the area of practicing natural environment safety measures taken to made a green environment in the library premises. This Study conducted by eight Central University Libraries and six State University Libraries in India. The data collected structured questionnaire and on the IFLA green library guidelines. This study focused on green library Issues and challenges of environmental sustainability. **Sapna and sunil (2020)** have studied the green library building materials, reduces waste, maximizes the natural resources, and maximizes renewal resources, like lighting, layout, accommodation, and furniture and Visual aspect should be displayed in library. **Gupta (2021)** has studied that, this paper provides a holistic approach and understanding to the concept of green or sustainable libraries. This study has categorized there are four major measures and practices of a green or sustainable library, a green design and interior, incorporating green practices in day-to-day operations of libraries, green collection development and literacy programmes, and adopting emerging innovative and smart technologies that can be integrated into the functioning of libraries. **Kruszewska (2021)** has aimed at minimizing their waste or negative impact in the libraries, create friendly environment and maximizes natural and renewable resources. This article focused on there is three goals: like clarification of the term 'green or sustainable library, conceptualization of the term 'green librarianship, and determination of green librarianship environment areas. Finally, this paper contributed to the libraries development of method, evaluation of activities and development of green libraries.

3. Objectives

Based on the objectives are following

To know the meaning and importance of green libraries

- To understand the different standards being followed for green libraries
- To create natural eco-friendly environment
- To know the solutions to convert existing libraries into green or sustainable libraries.

4. Methodology

This research paper work can be done by as a theoretical concept. The methodological framework used in this article is based on previous research related to systems of innovation. The Literature survey was done by online full text database like Emerald, Integrated Digital Library, Yahoo, LISTA, LISA and Google scholar etc. The research is based on secondary data, which includes compilation of research articles.

5. Concept of Green Library

The Green Library movement has started within the early 1990's as a result of libraries become transforming to old system to green environmental issues generally. With the concept of Green or sustainable Library movement, in present decades the literature of Green Libraries began to popular and awareness on the concept of green began to extend. In present era the global communities and enlarging change of environment-sensitive. Various green library movements emerge over a period of your time, which have a big relevance to the natural environment. "Green Library" is one of the innovating concepts and movements. The paper revealed that the concept of the green of sustainable library, green library movements, standards, needs, development, features, popularity and green library initiatives in recent days.

The green libraries were recognized by following 5 keys

- Site location
- Water conservation and preservation
- Energy efficiency system
- Building materials
- Natural indoor air quality and bonus category for innovation and design.

6. Features of Green Library:

the concept of green library is characterized as natural environment eco-friendly library or sustainable library. The green libraries necessarily possess certain essential features like following

- Use of transparent roof and ground
- Energy and efficiency windows
- Use of natural resources, recycled and reuse regionally available materials
- Use of natural efficiency energy lighting decrease consumption
- Preservation and Conservation of natural resources like air, energy, water, paper and other things
- Reduce Outside Noise of the libraries
- Suitable tree plantation of inside and outside of library building
- Better Indoor Air Quality
- Use of natural environment and friendly technology

7. International Green Libraries

- The Library of International Campus, Zhejiang University in China

- North Library of Suzhou Library in China

- Anna Centenary Library in India

- Biblioteca EPM in Colombia

- National Library of Estonia in Estonia

- Illyés Gyula Library of Tolna in Hungary

- Asian Development Bank Library in Phillippines

- Singapore Management University Libraries in Singapore

- Hampshire Library Service in UK

- Vietnamese-German University Library in Vietnam

8. Conclusion

The advancement of science and technology our life styles are influencing and changing with a greater pace. Today, the demand for anything is increasing rapidly, and we people are harnessing the power of it to fulfill our unending demands. In recent days we people are losing mandatory responsibility in our life, which should be recognized before we should know and talk about greenery development in this rapidly changing world. It is nothing but the word 'Green', which is of a great significance for a healthy survives in library paradigm. We have observed that, over the past few decades there are increasing several interests towards green revolution in almost every sector and library is one of it. Presently, libraries work as research centre, career information center, digital information centre, for knowledge are particularly responsible not only for exchange their idea of sustainability, but also for leading by example and thus serving as exemplars. In recent days Libraries should adopting green elements into their routine operations. In fact, there are several reasons adopting green features into their library buildings. It is vital role for the health of library development and increasing library users.

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