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Design the Parameters of Sustainable Green Building

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Abstract: In recent years, sustainability concept has become the most common interest of numerous disciplines. Green Building is one of the good measures put forward to mitigate significant impacts on the environment, society and economy. This paper reports a review of sustainable building materials for green building construction, conservation and refurbishing, architectural research for sustainable green design and a concept of sustainability.

It is found that the existing studies played predominantly focus on the environmental aspect of the sustainable green building. The parameters of the green building are essential to design, operate and maintain building energy and utilization of new materials.

Keywords: Sustainability, Green building, eco-friendly architecture, Sustainable materials.

I. INTRODUCTION

Sustainable green building has become an important concept due to increasing pollution through constructions and the materials used in the construction.

The main objective of this study is to design the parameters of the sustainable green building to create healthy buildings which also create a healthy natural environment. Green materials are a good alternative to meet the environment pollution-free. So, green materials and architecture strive to minimize the number of resources used in the building as well as use, operation, pollution, and the waste of its components. The energy efficiency and the engineering of environmental design are dealt with the architecture.

II. LITERATURE REVIEW

A. Title

Sustainability Building material for Green Building Construction, Conservation and Refurbishing.

1) *Author:* Usman Amino Umar, M. K. Khamidi

2) *Abstract:* In this research they studied the sustainable building materials for green building. In order to discover alternative sustainable building materials may be the fastest way for the builders to start integrating sustainable design concepts. They studied on the development of green building, building materials problem, material selection, life cycles of sustainable green building materials. The purpose of this article is to highlight how sustainable building materials can contribute to a lesser impact on environmental degradation.

B. Title

Architectural Research for Sustainable Environmental Design

1) *Author:* Simon Yannas

2) *Abstract:* Simon Yannas has done the architectural research for a sustainable design. In this article apart from energy efficiency and the engineering of environmental design, they dealt directly with architectural students in the course of their studies. This article provides alternatives to the universal architecture. From this paper we studied about the lifestyle trends, technical development and climate change. Simulation of the software is introduced early on, so that students can use it on projects as soon as they have a reasonable grasp of the principles.



C. Title

Green Architecture: A Concept of Sustainability

1) Amany Ragheb, Hisham Ragheb, Ghada Ragheb

2) *Abstract:* They published the research paper on ‘Green Architecture: A concept of Sustainability’ in which they studied the materials should be ecofriendly for construction of sustainable green building. For achieving the good environment condition. The number of resources consumed in building construction should be minimize for avoiding pollution and waste of its component. Also they mention the benefits of green building comfort, economy and aesthetic as well as environmentally responsible.

III. PROPOSED WORK

A. Advantages of Green Building

- 1) Cost
- 2) Efficiency
- 3) Preserving infrastructure

B. Disadvantages of Green Building

- 1) Location
- 2) Availability of Materials
- 3) No air cooling features

IV. CONCLUSION

This study reported a review on sustainable building should be consist of use of maximum green materials for maintain the environmental balance as well as using the principles of the eco-friendly Architecture for minimizing the increasing pollution rate.

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