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Implementation and Benefits of Green building: A Review

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Abstract: *The process in which the environmental impacts of the building reduced is called green building. The building intends to be responsible for most energy consumption as well as a large producer of the greenhouse gases. Global emission from the building has found to be 18 percent today. The greenhouse gasses generally emitted from the buildings include carbon dioxide sulfur-nitrogen etc. to deal with the environmental issue the green building concept was introduced. The green buildings designed in such a way that it makes most of the use of a renewable resource. The design of green building begins with the selection of eco-friendly material. Building material can be selected according to functional, financial requirements. The paper focuses on the design and implementation of green buildings to reduce environmental impacts.*
Keywords: *environmental impacts, green building, renewable resource, greenhouse gasses,*

I. Introduction

Green building is the technology in which the natural resource available to construction. As 40% of emission of co2 takes place from building India stand on 144th position in rising carbon emission in the world. green building improves the environmental impact by reducing energy use by 30-5% emission by 35% waste output by 70% water usage by 40% green building were introduced to reduce the environmental impact of building on environment improves the health condition structure. Green building is economical in performance. There is needed to make people aware of the technology so that the people could practice green building technology.

II. Literature Review

1. Chandra Shekhar Singh

In his paper green construction analysis of green and sustainable building technology says that green building is building built which operate maintain and selection of construction material with minimum environmental impact is improving the parameter of green building. In this paper, he concluded that there is much application of green building and there is some limitation as well which needed to be focused, the application of green building is just not to minimize transportation but cut carbon emission, provide skill and employment opportunity. [1]

2. M Samer

In his paper towards the implementation of green building concept in an agricultural building, a literature review says that the construction industry generates greater environmental impact compared to the industry green building is key to achieve the sustainability in construction. Green building is all about the building of the life cycle, the material used in construction. In this paper, M Samer review many research paper and concluded that the implementation of green building concept in an architectural building is limited. He said that the use of architectural waste should be done in green building material. The implementation of green building concept in the architectural building need to be overlooked and more research should be done on this topic. [2]

3. Amos Darko

In his paper Benefit of green building a literature review focused on the research gap in construction management has been focused the construction industry has various impact on the natural environment it is found that the construction industry consumes 40% of energy produced. The various environmental impacts have resulted in rising global awareness in construction. Green building is the only solution which can help to reduce the environmental impact and also provide economic benefit to the construction industry still there is need to research on the benefit of green building. It was concluded that the stakeholder should understand the

benefit of GB so that they adopt green building. Education public is necessary so that they could implement green building. [3]

4. Yang Lu

In his paper sustainability and innovative construction of the green building with concrete says that the green building is technology in which structure is made from eco-friendly material .motto of construction of a green building is to reduce the use of energy sources and reduce pollution and environmental impact. Yang Lu has focused on the application of green concrete in the green building movement. Classification of sustainable material is in two types one is renewable material and another is green material. Growth in sustainable building is boosting up the economy in construction activity. the quality of green concrete is long service life and high performance and maximized recycling material usage and minimize environmental impact, minimize transportation cost, the author concluded that green concrete is good alternative material to be used in a green building instead if portland cement as it helps to reduce carbon footprint up to 5%.[4]

5. Manoj Kumar Singh

In his paper green building design a step towards sustainable habitat says that increasing population and growth in building sector is using most of the energy and consequently increasing greenhouse gases in his article he discussed various measures taken worldwide to reduce carbon footprint and reduce energy consumption of building with green building approach as well the green building rating and certification procedure in India discusses were 1.LEED (Leadership in energy and environment design) found in 1993 by US green building council.2. GRIHA (green rating for integrated habitat assessment developed by TERI (the energy resource institute), 3.ECBC (Energy consideration building code), he concluded that there is two certification process in India. GRIHA and IGBC grant assessment of the building. In the green building, there is more scope of rating to address the various issue of green building. [5]

6. Jan Zuo

In his paper green building research current status and future agenda: A review says that the construction industry has an environmental impact on society. The previous research and review done of the green building topic were just limited to the scope of green building and the benefit of green building. Between green building and conventional building. in this paper the other dimension such as sustainability is overlooked and future research opportunity have been suggested such as validation of real performance of green building, effect of climate on effectiveness of green building shows that it can be categorized in definition, scope of green building, as of achieving green building Jian Zuo concludes in his paper that sustainability in green boiling should be overlooked upon as future idea. [6]

III. Conclusion

Green building is the technology of implementation of sustainable development. It is technology which reduces environmental impact on nature .this technology is easy to practice and economic, still green building technology is not practiced there is a need for awareness about the green building technology. There is more scope of rating to address the various issue of green building. In fact, green building Technolgy is need of the hour so that rising environmental impact could be controlled.

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