

Development of Green Building Assessment Tool for Developing Countries – The Case of India

Md Aasif

B.Tech, CIVIL Engineering Student

Arya College of Engineering and Research Center, Kookas, Jaipur, Rajasthan

Abstract: *Environmentally friendly construction techniques are reviewed in detail in this comprehensive review of sustainable building materials. With growing concerns about environmental degradation, the construction industry is increasingly focusing on long-term solutions. These studies include bamboo, engineered wood, recycled materials, and high-quality concrete mixes. The study highlights the importance of tensile, tensile and flexural forces, which are key confirming the integrity of the building. The study also examines the synergistic properties of various materials and provides useful insights into their applications in real-world construction projects. Moreover, the study investigates the environmental impacts of these materials environment through attributes such as renewability, recyclability and energy efficiency. As part of the study, laboratory studies were conducted to identify the major components of selected products. The study highlights the ecological benefits of adopting these sustainable alternatives through social studies and comparative analysis. The survey results can be used as a comprehensive assessment for architects, engineers and planners, providing them with a comprehensive knowledge of sustainable construction.*

Keywords: Sustainable building materials, environmentally friendly alternatives, construction, environmental impacts, life cycle analysis, green building practice

