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Abstract Details

Title: Sustainable Construction Materials for Buildings

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Abstract: Sustainable construction is the way of adopting materials and products in building and construction that requires less use of natural resources and increases the usability of such materials and products for the same or similar purpose, thereby making reduction in waste generation as well. Moreover, sustainable construction technique enhances the resilience of the industry as such materials are readily available in the market. Steel and other metals, glass and prefabricated parts using combination of these, as well as recyclable alternatives for concrete are few examples of sustainable materials and products. Sustainable construction is to be started right with planning and design. So the roles of developers, builders and designers are pivotal. Nevertheless, as sustainable construction involves prefabricated products also, it would be helpful to assign relevant specialists and suppliers early in the design stage. Again implementation down the entire construction value chain is also necessary. There is a need for sharing and exchanging of knowledge and expertise in the design and the use of such materials. The capacity building and skill development in construction and installation are equally critical. From safety and quality point of view, the performance of such buildings and structures should remain high. In this paper, it is attempted to highlight the benefits and advantages of such materials and products for construction of buildings and structures.

Keywords: Flexibility, Construction Quality.