

Circular Economy: Development of Quantitative Material Wastage Management Plan for Effective Waste Reduction in Building Construction Industry

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Abstract : Combating climate change is becoming a hot topic in various sectors. Building construction and infrastructure sectors contributed a significant proportion of waste and GHGs emissions in the economy of different countries and cities. Many types of research had conducted and discussed the topic of waste management and waste management being a macro-level control is well developed in the building and construction industry. However, there is little research and studies on the micro-level of waste management, "building construction material wastage management," and fewer reviews about regulatory control in the building construction sector. In this paper, we will focus on the potentialities and importance of material wastage management and review the deficiencies of the current standard to take into account the reduction of material wastage in a systematic and quantitative approach.

Keywords : quantitative measurement, material wastage management plan, waste management, uncalculated waste, circular economy

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