ANALYSIS ON THE APPLICATION OF THE GREEN BUILDING CONCEPT OF CONTRACTORS IN SURABAYA

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ABSTRACT

Nowadays, the development of building construction is growing rapidly and as the response, there are various emerging environmental damage and trash from those activities. Minimizing environmental damages, the concept of green building which is an environmentally friendly building concept can be implemented. In response to public awareness on the environment the construction of the environmentally friendly green building concept considerably gained high interest. The implementation of the concept of green building construction, there are several aspects that must be fulfilled so that the building can be considered as the building with the green building concept. And as one of them contractor has an important role in the implementation of the concept.

This study aims to determine the factors applied by the contractor in the green building concept in Surabaya and discover how the concept of green building in Surabaya is applied. The study was divided into two, the initial research conducted by the literature on previous research studies and advanced by spreading the questionnaire on which the construction industry contractors in Surabaya on how the concept of green building applied. Questionnaire results from data collected and processed for analysis using a statistical test of factor analysis.

Results showed there are 22 variables which reduced into 17 variables and acquired 5 new factors after the analysis. The first factor is the use of resources which obtained a value of 46.435%, the second factor is the environmental building management which valued on 11.288%, the third factor is environmental technology building which valued on 7.618%, the fourth factor is construction waste management which valued into 6.321%, and the fifth factor is solid waste management, valued on 5.943% according to the application of the green building concept that applied by contractors in Surabaya.

Keywords: green building, contractors, Surabaya, construction
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