

Assessing Indicators, Challenges and Benefits of Sustainable Procurement in Construction Projects

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Abstract : Procurement is a key process in construction project management. The present construction procurement practices have been extensively analyzed for disregarding sustainability in the project life cycle. Currently, there is a gap of information on status-quo of sustainable procurement in construction field. Thus, the aim of this study is to review sustainable procurement practices in the construction field. Disregard of three sustainability pillars is one of the major drawbacks of present construction procurement practices. Sustainable procurement is a developing idea that can enhance procurement practices and improve the sustainability performance of the construction projects. At present, sustainable procurement is still not entirely used in the construction projects. A comprehensive literature review indicated that the construction industry is still not entirely informed about the benefits and challenges of using sustainable procurement, and about important indicators that play major impacts on those benefits and challenges. This study assesses the major indicator, benefits and challenges encountered in applying sustainable procurement in the construction industry. In addition, this study investigates understanding of construction professionals on the benefits and challenges of utilizing sustainable procurement for construction projects through selected indicators that are categorized according to society and community needs.

Keywords : sustainability, sustainable development, sustainable procurement, procurement, construction industry

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