

# **FACTORS AFFECTING LIFE CYCLE PHASE OF SUSTAINABLE CONSTRUCTION PROJECTS**

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## **ABSTRACT**

The current research investigates the contribution of better understanding of the building evaluation and its role for achieving sustainable management factors using existing researches. The research will be a relationship between existing researches, their results, methods and their questions. The construction industry plays an essential role in improving the quality of the built environment, but it also has some influences on the wider environment in a number of ways.

This research is intended to identify the factors affecting life cycle phase of sustainable construction projects in construction Industry. The questionnaire is designed based on the research method to be used after the thorough investigation of the literature and identification of various factors affecting life cycle phase of sustainable construction projects in building construction. Total fifty factors are divided in main three groups such as Economic factors, Social factors and Environmental factors.

Data Analysis through excel software has been carried out. Also, all factors affecting life cycle phase of sustainable construction projects have been ranked using RII method, FI method and SI method. Analysis has been carried out for each stakeholder group and also as overall response from stakeholders.

The top ten factor influencing life cycle phase of sustainable construction projects rated by their level of effect and frequency of occurrence are Project Scale and Business Scope, Effects on local Economy, Specific treatment of waste, waste from chemicals, Selection of materials, Usage of reuse materials, Methods related to friendly environment, Generation of waste, Water pollution, and Reuse and Recycle.