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Abstract:
Construction and demolition waste is defined as the solid waste generated from the construction sector, including construction work, finishes, renovations, restoration and demolition. According to State Ministry of Environment report 2016, construction and demolition waste has the largest share of total solid waste per year nationally; which confirms that it is essential to study this problem in order to reduce its negative effects on the environment and public health. The research therefore focused on studying the waste management status through presenting the Grand Egyptian Museum project as a case study, as GEM considers one of the biggest construction projects in Egypt at the present time, within the framework of the integrated and sustainable management building materials’ waste; The research goal is to set an integrated and sustainable administration framework for building materials’ waste, using qualitative method to analyze the project’s data through conducting personal interviews with some project managers who are responsible for the construction works of the project, visit their sites, an additional quantitative analysis shall be performed to question the experts about achieving integrated waste management and sustain building materials’ waste. The research concluded that the work priorities for an integrated and sustainable management plan for building materials’ waste in construction projects in Egypt was determined via logistic regression analysis.

Keywords: Building Materials’ Waste, Integrated and Sustainable Management, The Grand Egyptian Museum

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