STRATEGIES TO MINIMIZE MATERIAL WASTAGE IN ELECTRICAL WORKS FOR HOTEL BUILDING PROJECT IN SRI LANKA. A CASE STUDY ANALYSIS

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Abstract: “Achieve best value for money” is the ultimate desire of the Quantity Surveying profession. When project materials are wasted, it means that the money has been spent on resources that do not contribute to the project's progress. Therefore, every piece of material wasted represents a loss of money. The case is about the material wastage regarding the electrical works of a hotel building project in Sri Lanka and it is observed from the perspective of a quantity surveyor in a contractor organization. In nutshell, this case study is tended to garner positive attention to elaborate for that waste minimization strategies to mitigate the electrical works material wastage in similar kind of hotel building projects in Sri Lanka. Wastage minimization strategies were gathered from questionnaire surveys, semi structured interviews, and related literature documents from the site. The requirement of training programs for labourers to acknowledge the material wastage minimization best practices and ethics, enhance the proper communication between trade contractors and top management, proper storage arrangements, employing skill labourers, providing incentives to motivate them for minimizing material wastage and adapt with technological systems to avoid theft and vandalism are the key innovative strategies emphasized to minimize electrical works material wastages. According to the findings and analyzed questionnaire responses respect to the particular project and analytically resulted from semi-structured interviews, the "construction stage" is the most suitable phase for implementing electrical waste minimization strategies in a hotel building project, despite from the design stage, procurement stage, planning stage and material handling and storage stages.

Keywords: Material Wastage, Minimization Strategies, Electrical Works