

## APPLICATION OF BUILDING INFORMATION MODELING IN CONSTRUCTION PROJECTS OF SRI LANKA, TO OPTIMIZE COST, QUALITY AND TIME

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The Construction projects have made various attempts to reduce wastages (cost, time, quality), in order to avoid the disputes that has the possibility to force the economy and difficult to indicate growth of the Gross Domestic Product (GDP) index. Now a days, most of the on-going projects are delayed due to those events. The application of Building Information Modeling (BIM) has been increasingly adopted to overcome situation as potential solution. BIM is not a single piece of software, but a new form of information processing and collaboration, with data embedded within the model. Each discipline or organization creates its own model, and these are subsequently amalgamated to provide a combined view of the project. Consequently, this is an area where all stakeholders can involve with the project in different stages in the construction. The

world has practiced the BIM in many years in the construction. This study explores to review BIM application in Sri Lankan construction industry based on case studies of three construction projects, which are using BIM practices. Data will be collected by interviewing three participants from each of selected on-going construction projects. Based on the case study findings and preliminary review, a framework will be developed for BIM application in construction projects which can lead to an effective and efficient management system in construction practice and comparison with the world practice.

**Keywords – BIM, Reducing wastages, delays financial expenses, construction projects, Stakeholders**