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The Impact of BIM Software Application on the Quality of the Construction Project Success: Special Reference to the Post Pandemic Situation in Sri Lanka

PSA Deemantha[1#], SD Jayasooriya[1] and AH Lakmal[1]

[1]Faculty of Built Environment and Spatial Sciences, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka

[#]36-qs-0024@kdu.ac.lk

Abstract

The COVID-19 pandemic significantly impacted Sri Lanka's construction sector and even in the post-pandemic situation. As a response, project stakeholders embraced remote work practices. This presents an opportunity for stakeholders in the construction industry to leverage Building Information Modelling (BIM) software applications to enhance the quality of the project success. BIM's integration throughout the construction project life cycle positions it to become the standard, including procurement processes. The widespread adoption of BIM tools has transformed the global construction industry, automating service delivery and revolutionizing practices of the construction professionals. This research offers insights into using BIM software applications to overcome challenges associated with traditional methods. Findings indicate a positive impact of using BIM software applications by the construction professionals on the quality of project success in the post-pandemic situation of Sri Lanka and a positive relationship is observed between the BIM software applications by the construction professionals and the quality of project success. These findings can inform improvements for better preparing future professionals for upcoming challenges. In addition, this research emphasizes the importance of leveraging BIM software applications for enhanced the quality of the project success. It provides valuable insights to the construction professionals in empowering them to navigate the changing landscape and capitalize on the benefits of BIM. By embracing the advancements and recommendations outlined in this study, construction professionals can proactively adapt the future challenges and deliver improved project outcomes.

Keywords: *BIM Software, Project Success, Post Pandemic Situation*