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Stabilization of the Plan Percent Complete Indicator in Masonry by the Application of Lean Construction - Six Sigma Techniques

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Abstract

The use of Six Sigma techniques is common in manufacturing industries. However, its application in construction or other service-oriented companies has been partially explored in literature. This paper offers and approximation of its applicability in the improvement of execution and efficiency in masonry activities in a residential project in Bogota, Colombia. Our results show that Six Sigma is a useful tool to improve control and follow up of construction processes, contributing to standardization and robustness in work. Combined with Lean Construction, useful action plans can be implemented that are in concordance with construction companies challenges.