

Studi Evaluasi Pelaksanaan Monitoring Manajemen Konstruksi Pada Pekerjaan Baja Lantai Mezanin Bangunan Sport Center = Evaluation Study of Construction Management Monitoring Implementation for Steel Work on the Mezzanine Floor of the Sports Center Building

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Abstrak

Proyek konstruksi dipengaruhi oleh berbagai faktor yang dapat memengaruhi keberhasilannya, seperti keterlambatan dan kualitas buruk akibat pelaksanaan serta pemantauan yang kurang optimal. Model Informasi Bangunan (BIM) menjadi solusi potensial dalam mengatasi permasalahan ini, terutama dalam pelaksanaan dan pemantauan proyek. Pada pekerjaan baja lantai mezanin pusat olahraga, teridentifikasi beberapa tantangan, seperti ketidaksesuaian desain, perubahan detail gambar, perubahan tahapan pekerjaan, dan keterlambatan pengadaan material. Tim manajemen merespons dengan memanfaatkan BIM dan perangkat lunak seperti Revit, Synchro 4D Pro, AutoCAD, serta Glodon untuk evaluasi dan mitigasi risiko melalui Perubahan terkontrol. Penerapan BIM yang lebih terintegrasi dan didukung peningkatan kompetensi sumber daya manusia (SDM) berpotensi meningkatkan efisiensi, meminimalkan deviasi, serta menjaga kinerja proyek secara optimal.

.....Construction projects are subject to various factors that can significantly influence their success, including delays and substandard quality resulting from inadequate execution and monitoring practices. Building Information Modeling (BIM) has emerged as a promising solution to address these challenges, particularly in the areas of project execution and monitoring. In the context of the steelwork for a mezzanine in a sports center, several challenges have been identified, including design discrepancies, alterations in drawing details, modifications to work phases, and delays in material procurement. To mitigate these issues, the management team adopted BIM in conjunction with software tools such as Revit, Synchro 4D Pro, AutoCAD, and Glodon for comprehensive risk evaluation during Changed Control. The enhanced integration of BIM and supported by augmented human resource competencies is posited to significantly improve operational efficiency, reduce deviations, and maintain optimal performance throughout the project lifecycle.