

Perataan sumber daya proyek menggunakan metode bobot posisi dalam microsoft project dan primavera pada proyek the royale springhill residences = Resource leveling using ranked positional weight method by microsoft project and primavera at the royale springhill residences construction project / Agi Prakasa Erahman

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20387842&lokasi=lokal>

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Abstrak

[Beberapa penelitian menunjukkan bahwa angka efisiensi pada sektor konstruksi masih tertinggal dibanding dengan sektor lainnya. Industri konstruksi dapat mengambil manfaat secara signifikan dari studi dan adopsi terhadap praktik atau aplikasi dari sektor lain. Salah satu yang dapat dilakukan adalah dengan penerapan Metode Bobot Posisi yang diadopsi dari sektor manufaktur pada proses perataan sumber daya. Perataan sumber daya pada sektor konstruksi dapat dilakukan dengan mempertimbangkan prioritas tiap aktivitas dengan metode bobot posisi ini. Perataan sumber daya menggunakan metode bobot posisi menggunakan bantuan microsoft project atau primavera. Penelitian ini menggunakan Proyek The Royale Springhill sebagai studi kasus. Tujuan dari penelitian ini adalah untuk mengetahui apakah penerapan metode bobot posisi pada sektor konstruksi dapat meningkatkan efisiensi pada proses perataan sumber daya dari segi biaya dan waktu. Perataan dengan menggunakan standard leveling pada microsoft project dan primavera menghasilkan durasi penyelesaian secara berturut-turut 661 dan 658 hari, sedangkan menggunakan metode bobot posisi, menghasilkan durasi penyelesaian sebesar 662 dan 658 hari. Ini menghasilkan efisiensi durasi 1,002 (microsoft project) & 1 (primavera) serta efisiensi biaya 1,001 (microsoft project) & 1 (primavera) yang menunjukkan penerapan metode bobot posisi tidak berpengaruh bahkan cenderung tidak efisien. Hal ini mungkin disebabkan karena kurang kompleksnya hubungan ketergantungan antar aktivitas pada jadwal proyek serta kurang signifikannya besaran alokasi sumber daya. Several studies have shown that efficiency rate in construction sector still left behind compared to the others. Construction industry should take a benefit significantly from study of the other sector. For example, the application of Ranked Positional Weight Method from manufacturing sector on a process of resource leveling in construction sector. Resource leveling in construction sector can be done by considering the priority of each activity with this positional weight method. Ranked Positional Weight Method uses microsoft project or primavera to level the resource. This research uses The Royale Springhill Residences Construction Project as the study case. The purpose of this study is to determine whether the application of positional weight method in the construction sector can improve the efficiency of resource leveling process in terms of cost and time. Standard leveling of resource by Microsoft Project and Primavera produces duration of 661 and 658 days respectively while RPWM leveling produces duration of 662 and 658 days. By using the formula efficiency ratio analysis duration of 1.002 (microsoft project) & 1 (primavera) and cost efficiency 1.001 (microsoft project) & 1 (primavera). This method produces duration ratio of 1,002 (microsoft project) & 1 (primavera) and cost ratio of 1,001 (microsoft project) & 1 (primavera) which means this method has no effect on efficiency, tends to be inefficient. This might be due to less complex of the dependency between activities in the project schedule as well as less significant the amount of allocation of resources, Several studies have shown that efficiency rate in construction sector still left behind compared to the others. Construction

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