

Optimasi prediksi jadwal penyelesaian pada studi kasus proyek pengembangan double-double track (paket A) dengan metode PERT = Optimization of completion schedule prediction in case study of double-double track development project (package A) using PERT method

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Abstrak

Pembangunan sarana dan prasarana perkeretaapian saat ini sangat gencar dilakukan oleh Pemerintah Indonesia melalui Direktorat Jenderal Perkeretaapian, Kementerian Perhubungan sebagai upaya memajukan sektor perkeretaapian nasional. Namun dalam pelaksanaannya, seringkali ditemukan permasalahan yang menyebabkan penyelesaian pembangunan sarana dan prasarana perkeretaapian tersebut menjadi terhambat dan mengalami keterlambatan. Keterlambatan jadwal penyelesaian tentunya akan berdampak kepada sejumlah hal, baik dari sisi pembiayaan proyek, penilaian kinerja Lembaga/Kementerian, capaian yang dirasakan langsung oleh masyarakat, bahkan dapat menyebabkan perubahan pola operasi kereta api sebagai bentuk penyesuaian terhadap proses pembangunan tersebut. Penelitian ini dibuat untuk menentukan strategi optimasi prediksi jadwal penyelesaian dari proses pembangunan sarana dan prasarana perkeretaapian dengan menggunakan studi kasus pada Proyek Pengembangan Double-Double Track (Paket A). Proses penelitian diawali dengan mengidentifikasi risiko-risiko penyebab keterlambatan jadwal penyelesaian pada studi kasus proyek tersebut, sehingga nantinya dapat dilanjutkan pada proses pengoptimasian prediksi jadwal penyelesaian dengan menggunakan metode Program Evaluation and Review Technique (PERT).....The construction of railway facilities and infrastructure is currently very intensively carried out by the Government of Indonesia through the Directorate General of Railways, Ministry of Transportation as an effort to advance the national railway sector. But in its implementation, there are often problems that cause the completion of the construction of railway facilities and infrastructure to be hampered and delayed. Delays in completion schedule will certainly have an impact on a number of things, both in terms of project financing, assessment of the performance of institutions / ministries, achievements felt directly by the community, can even lead to changes in the pattern of railway operations as a form of adjustment to the development process. This research was created to determine the optimization strategy of the predicted completion schedule of the railway facilities and infrastructure development process using case studies on the Double-Double Track Development Project (Package A). The research process begins by identifying the risks that cause delays in the completion schedule in the project case study, so that later can be continued in the process of optimizing the predicted completion schedule using the Program Evaluation and Review Technique (PERT) method.