Aplikasi penjadwalan linear scheduling dengan pendekatan metode singularity function pada proyek pembangunan breakwater di Pelabuhan Kalibaru = Application of linear scheduling with singularity function method at breakwater project development in port of Kalibaru / Andi Muhammad Adam

Andi Muhammad Adam, author

Abstrak

ABSTRAK
Breakwater merupakan proyek linear construction projects dengan tipe pekerjaan berulang (repetitive work activities), namun di Indonesia penjadwalan untuk pekerjaan repetitive project masih menggunakan penjadwalan konvensional, khususnya pada proyek breakwater pelabuhan Kalibaru Jakarta. Metode linear scheduling dengan singularity function diaplikasikan pada pembangunan breakwater Pelabuhan Kalibaru mengingat metode tersebut mempunyai banyak kelebihan. Dalam penelitian ini dilakukan analisa terhadap jadwal pelaksanaan rencana yang memiliki durasi pekerjaan yaitu 485 hari serta terhadap nilai buffer antar kegiatan. Hasil analisa dengan singularity function menyimpulkan dengan mengoptimalkan nilai buffer antar kegiatan dapat mengurangi durasi pekerjaan. Hasil optimal yang didapat adalah durasi pekerjaan 274 hari.
<hr>
ABSTRACT
Breakwater is a linear construction project with repetitive work activities, but in Indonesia scheduling for repetitive projects are still using conventional scheduling, especially in the construction of breakwater project in Kalibaru Jakarta. Linear scheduling method with singularity function is applied in the construction of breakwater at the Port of Kalibaru considering the method has many advantages. In this research, an analysis of the plan implementation schedule which has duration of 485 days, and an analysis to the value of the buffer between activities. The results of the singularity function analysis conclude by optimizing the value of buffers between activities can reduce the duration of the work. Optimal results are obtained work duration is 274 days.