

ANALISIS OPTIMALISASI PENJADWALAN DAN BIAYA

PADA PROYEK BANGUNAN GEDUNG

(Studi Kasus Pembangunan Pasar Kaliangkrik Kab. Magelang Provinsi Jawa Tengah)

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ABSTRAK

Pemerintah dalam hal ini Kementerian Pekerjaan Umum dan Perumahan Rakyat Kabupaten Magelang bermaksud untuk membenahi serta meningkatkan pelayanan umum khususnya pasar yang lokasinya berada di Kecamatan Kaliangkrik Kabupaten Magelang Provinsi Jawa Tengah. Karena sebagai salah satu pusat perdagangan di kawasan Kecamatan Kaliangkrik dan sekitarnya, sehingga peningkatan kualitas sarana dan prasarana menjadi sasaran utama.

Pengumpulan data didapat dari data primer dan data sekunder, data yang diperlukan antara lain jurnal penelitian, penjadwalan proyek/*time schedule* dan rencana anggaran biaya/RAB. Analisis data berdasarkan dari penjadwalan proyek/*time schedule* diuraikan ke dalam diagram *network* untuk menentukan percepatan waktu/*durasi* pelaksanaan dengan alternatif menambah jam kerja dan menggunakan metode *Crashing*, metode *Overlapping*, dan metode *Combine (Crashing dan Overlapping)* kemudian di hitung optimalisasi biaya yang di hasilkan.

Percepatan menggunakan metode *Crashing*, metode *Overlapping*, dan metode *Combine (Crashing dan Overlapping)* dapat memperoleh hasil percepatan waktu/*durasi* 7 minggu (21 %) yaitu biaya pelaksanaan sebesar Rp 4.199.793.417,32 (9 %), dari biaya pelaksanaan semula Rp. 44.562.610.271,00 menjadi Rp. . 40.362.816.853,68.

Kata kunci : optimalisasi, *crashing*, *overlapping*, *combine*

THE ANALYSIS OF SCHEDULING AND COST OPTIMIZATION IN BUILDING CONSTRUCTION PROJECTS

(A case study of Kaliangkrik Market Construction, Magelang Regency, Central Java Province)

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ABSTRACT

The government, in this case the Ministry of Public Works and Public Housing, Magelang Regency, intended to improve the public services, especially the market located in Kaliangkrik District, Magelang Regency, Central Java Province. Considering that the market was one of the trade centers in Kaliangkrik District and the surrounding areas, improving the quality of facilities and infrastructure became the main target.

Data collection were obtained from the primary and secondary data, the required data included the research journals, project scheduling/ time schedule and budget plans. Data analysis referred to the project schedule/ time schedule described in the network diagram to determine the acceleration of time/ duration of the implementation by alternatively adding the working hours and using the Crashing, Overlapping, and the Combination (Crashing and Overlapping) methods, which then calculated the cost optimization produced.

From the acceleration using the Crashing, the Overlapping, and the Combination (Crashing and Overlapping) methods, the results of the acceleration of time/ duration of 7 weeks (21%) could be obtained, namely the implementation fee of Rp. 4,199,793,417.32 (9%), from the initial implementation cost of Rp. 44,562,610,271.00 to Rp. 40,362,816,853.68.

Keywords: optimization, crashing, overlapping, combination