

ABSTRAK

Judul : Analisa Biaya dan Waktu Pelaksanaan Pekerjaan *Façade Aluminium Composite Panel dan Curtainwall* Menggunakan Metode *Earned Value* (Studi Kasus : Proyek Bumi Raya City Mall – Pontianak), Nama : Ray Tri Nur Cahyanti, NIM : 41116120008, Dosen Pembimbing : Ir. Panani Kesai, M.Sc, 2022.

Jadwal pelaksanaan Proyek Bumi Raya City Mall tidak sesuai dengan perencanaan awal dikarenakan adanya Covid-19. Pada minggu ke- 27 dan minggu ke-28 proyek dihentikan sementara karena adanya beberapa pekerja yang terkonfirmasi positif Covid-19 sehingga seluruh pekerja harus melakukan karantina. Tujuan penelitian ini dilakukan untuk mengetahui pengendalian biaya dan waktu pekerjaan *façade aluminium composite panel dan curtain wall* dengan menggunakan metode *Earned Value*. Hasil dari penelitian didapatkan nilai SPI sebesar 0,900 berarti proyek telah mengalami keterlambatan. Sedangkan nilai CPI yang didapatkan adalah sebesar 0,992 berarti proyek tersebut menghabiskan biaya lebih besar dari anggaran. Dari hasil analisa biaya yang akan dikeluarkan hingga proyek selesai adalah sebesar Rp. 15.422.517.643 dan akan selesai pada minggu ke-49. Terdapat beberapa faktor selain Covid-19 yang menyebabkan proyek tersebut mengalami keterlambatan seperti material ACP harus *indent*, keterlambatan pengiriman, kondisi lapangan yang belum siap, material hilang, dan kurangnya kontrol tenaga kerja.

Kata kunci : *Facade, Kaca, Aluminium Composite Panel, Curtainwall, Biaya dan Waktu, Earned Value*



ABSTRACT

Title : Analysis of Cost Performance and Implementation Time for Aluminium Composite Panel and Curtainwall Façade Works Using The Earned Value Method (Case Study : Bumi Raya City Mall Project - Pontianak), Name : Ray Tri Nur Cahyanti, NIM : 41116120008, Lecturer : Ir. Panani Kesai, M.Sc., 2022.

The schedule for implementing the Bumi Raya City Mall Project was not in accordance with the initial plan due to Covid-19. In week 27 and week 28 the project was temporarily due to several workers who were confirmed positive for Covid-19 so that all workers had to do quarantine. The purpose of this study was to determine the cost and time control of aluminium composite panel and curtain wall façade works using the Earned Value method. The results of the study obtained an SPI value of 0,900 which means the project has experienced delays. While the CPI value obtained is 0,992, which means that the project costs more than the budget. From the analysis of the cost to be incurred until the project is completed is Rp. 15.422.517.643 and will be completed in the 49th week. There are several factors other than Covid-19 that caused the project experience delays such as ACP material having to be indented, late delivery, unprepared field conditions, missing materials, and lack of control of the workforce.

Keywords : *Facade, Glass, Aluminium Composite Panel, Curtainwall, Cost and Time, Earned Value*

