

**SUPPLY CHAIN PERFORMANCE MEASUREMENT WITH SCOR METRICS AND TRAFFIC LIGHT ANALYSIS ON CONSTRUCTION PROJECT**

**Abstract**

*Cibitung-Cilincing-Tanjung Priok Construction Project is a Construction Project under construction process by PT. Waskita Karya, Tbk. This project went properly constructed before the COVID-19 pandemic. However, During the pandemic, the construction process was slowed down for many reasons; one of the reasons was disruptions in the Supply Chain process. The research was conducted by collecting primary and secondary data required for analysis. The analysis utilizes SCOR metrics 12.0 from APICS to determine KPI: Reliability, Responsiveness, Agility, Cost, and Asset Management Efficiency. The actual score was determined through Traffic Light Analysis; the overall result showed that the disruption heavily affected Reliability, Responsiveness and Asset Management Efficiency. The overall score even went down from Before Pandemic: 7,2 to 2,7 based on productivity criteria assessment with Traffic Light Analysis.*

Keywords: SCOR; Supply Chain; Traffic Light Analysis; Performance Measurement; Construction

## **PENGUKURAN PERFORMA *SUPPLY CHAIN* DENGAN *METRIC SCOR* DAN *TRAFFIC LIGHT* ANALYSIS PADA PROYEK KONSTRUKSI**

### **Abstrak**

*Proyek Pembangunan Cibitung-Cilincing-Tanjung Priok adalah Proyek Konstruksi yang sedang dalam proses pembangunan oleh PT. Waskita Karya, Tbk. Proyek ini berjalan dengan baik sebelum pandemi COVID-19. Namun, selama pandemi, proses konstruksi melambat karena berbagai alasan; salah satu penyebabnya adalah terganggunya proses Supply Chain. Penelitian dilakukan dengan mengumpulkan data primer dan data sekunder yang diperlukan untuk dianalisis. Analisis ini menggunakan metrik SCOR 12.0 dari APICS untuk menentukan KPI: Reliability, Responsiveness, Agility, Cost, dan Asset Management Efficiency. Skor aktual ditentukan melalui Traffic Light Analysis; hasil keseluruhan menunjukkan bahwa gangguan tersebut sangat mempengaruhi Reliability, Responsiveness dan Asset Management Efficiency. Skor keseluruhan bahkan turun dari Sebelum Pandemi: 7,2 menjadi 2,7 berdasarkan penilaian kriteria produktivitas dengan Traffic Light Analysis.*

**Keywords:** SCOR; Supply Chain; Traffic Light Analysis; Performance Measurement; Construction