

ABSTRACT

This study uses the PKJI 2023 method to analyze the performance of the three-arm signalized intersection of MAN 2 Cirebon, Cirebon City. This study aims to determine the performance of three-arm signalized intersection of MAN 2 Cirebon, Cirebon City using the PKJI 2023 method.

The method used in this study is a descriptive method (survey method), namely by conducting several survey activities or direct observations in the field to determine the existing conditions of the MAN 2 Cirebon intersection, Cirebon City. Data processing uses the 2023 Indonesian Road Capacity Guidelines method.

The results of the study indicate that the performance of the MAN 2 Cirebon intersection in Cirebon City with PKJI 2023 method produces a level of service LOS (D). This is obtained from the saturation level (west approach Jl. Saladara 0.38, south approach Jl. Kalitanjung 0.57, north approach Jl. Pangeran Cakrabuana 0.36). Queue length (west approach Jl. Saladara 216 m, south approach Jl. Kalitanjung 152 m, north approach Jl. Pangeran Cakrabuana 240 m). number of vehicles stopped (west approach Jl. Saladara 79.8 smp, south approach Jl. Kalitanjung 54.9 smp, north approach Jl. Pangeran Cakrabuana 87.8 smp). Delay (west approach Jl. Saladara 55.2 sec/smp, south approach Jl. Kalitanjung 78.8 sec/smp, north approach Jl. Pangeran Cakrabuana 41.7 sec/smp).

Keyword : performance analysis and signalized intersection