

ABSTRAK

PEBRIYANTO SANDA(91811410141087), 2022. Analisis Stabilitas Lereng Menggunakan Perkuatan Bronjong Pada Ruas Jalan Mekar Sari Desa Patiwunga, Kecamatan Poso Pesisir. Dibimbing oleh Dr. Ir. Marthen Matasik Tangkeallo,ST.,MT.,IMP dan Henny Indriyani Abulebu,ST.,MT.

Penelitian kali ini berfokus pada analisis nilai faktor keamanan dengan teknik perkuatan bronjong pada lokasi ruas jalan mekar sari desa patiwunga dengan maksud membangun kembali akses jalan yang mengalami kelongsoran. Metode yang digunakan adalah metode metode bishop yang disederhanakan, Hasil penelitian menunjukkan bahwa nilai safety factor pada kondisi permodelan lereng sebelum longsor tidak aman setelah pemangkasan lereng dan pemasangan perkuatan bronjong menggunakan metode bishop dianalisis dengan hasil 1,7738 dapat dikatakan aman karena memiliki safety factor $> 1,25$. Pemasangan dan pemangkasan lereng merupakan salah satu alternatif efektif untuk peningkatan stabilitas pada ruas jalan mekar sari desa patiwunga.

Kata kunci : bishop, bronjong, lereng, longsor, SF.

ABSTRACT

PEBRIYANTO SANDA (91811410141087), 2022. Slope Stability Analysis Using Gabion Reinforcement on Mekar Sari Road Section Patiwunga Village, Poso Pesisir District. Supervised by Dr. Ir. Marthen Matasik Tangkeallo, ST., MT., IMP and Henny Indriyani Abulebu, ST., MT.

This research focuses on analyzing the value of the safety factor using percutaneous gabion techniques at the location of the Mekar Sari road section in Patiwunga Village with the aim of rebuilding road access that has experienced landslides. The method used is the simplified Bishop method. The results showed that the safety factor value in the modeling conditions of the slope before the landslide was not safe after trimming the slope and installing gabion reinforcement using the Bishop method was analyzed with a result of 1.7738 which can be said to be safe because it has a safety factor $> 1,25$. Installing and trimming slopes is an effective alternative for increasing stability on the Meraksari Patiwunga village road.

Keywords: bishop, gabion, slope, landslide, SF.

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