ABSTRAK

PERENCANAAN GEOMETRIK DAN TEBAL PERKERASAN LENTUR JALAN KTM RAMBUTAN – SP. LOROK STA 14+500 – 19+948 SUMATERA SELATAN

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Pembangunan infrastruktur jalan merupakan langkah strategis dalam meningkatkan konektivitas dan mendukung pertumbuhan ekonomi wilayah. Proyek pembangunan jalan KTM Rambutan – SP. Lorok STA 14+500 – 19+948 di Provinsi Sumatera Selatan bertujuan untuk merespons peningkatan arus lalu lintas dan distribusi barang serta jasa di kawasan tersebut. Dalam laporan akhir ini, dilakukan perencanaan geometrik jalan, penentuan tebal perkerasan lentur, dan penyusunan manajemen proyek. Perencanaan geometrik meliputi analisis alinyemen horizontal dan vertikal berdasarkan standar desain jalan yang berlaku, guna menjamin keselamatan dan kenyamanan pengguna jalan. Perhitungan tebal perkerasan lentur dilakukan dengan mengacu pada Manual Desain Perkerasan Jalan (MDPJ) tahun 2024, dengan mempertimbangkan volume lalu lintas, kondisi tanah dasar, dan karakteristik material. Selain itu, manajemen proyek juga disusun secara menyeluruh, mencakup Rencana Kerja dan Syarat-Syarat (RKS), perhitungan Rencana Anggaran Biaya (RAB), serta penjadwalan proyek melalui kurva S, dan network planning. Laporan Perencanaan ini diharapkan dapat menunjukkan bahwa desain geometrik dan struktur perkerasan yang direncanakan memenuhi standar teknis, dan rencana manajemen proyek dapat menunjang pelaksanaan konstruksi secara efektif dan efisien.

Kata kunci: Perencanaan Geometrik, Perkerasan Lentur, Manajemen Proyek, Rencana Anggaran Biaya, Jalan Raya.

ABSTRACT

GEOMETRIC PLANNING AND PAVEMENT THICKNESS FLEXURAL ROAD KTM RAMBUTAN - SP. LOROK STA 14+500 - 19+948 SOUTH SUMATRA

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Road infrastructure development is a strategic step in improving connectivity and supporting regional economic growth. KTM Rambutan - SP road construction project. Lorok STA 14+500 - 19+948 in South Sumatra Province aims to respond to increased traffic flow and distribution of goods and services in the region. In this final report, road geometric planning, flexural pavement thickness determination, and project management are carried out. Geometric planning includes horizontal and vertical alignment analysis based on applicable road design standards, to ensure the safety and comfort of road users. Calculation of flexible pavement thickness is carried out by referring to the 2024 Manual of Pavement Design (MDPJ), by considering traffic volume, subgrade conditions, and material characteristics. In addition, project management is also compiled thoroughly, including the Work Plan and Terms and Conditions (RKS), the calculation of the Cost Budget Plan (RAB), as well as project scheduling through S curves, and network planning. This Planning Report is expected to show that the planned geometric design and pavement structure meet technical standards, and the project management plan can support the implementation of construction effectively and efficiently.

Keywords: Geometric Planning, Flexural Pavement, Project Management, Cost Budget Plan, Highway.