

ANALISIS SITEM INSTALASI LISTRIK GEDUNG RUMAH SAKIT RIZANI PAITON

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ABSTRAK

Penelitian ini bertujuan untuk Mengidentifikasi kondisi aktual serta kinerja sistem instalasi listrik, Mengevaluasi kesesuaian sistem instalasi listrik di Rumah Sakit Rizani dengan standar keselamatan dan kesehatan kerja (K3) kelistrikan yang berlaku, Menganalisis potensi masalah dan risiko yang dapat memengaruhi keandalan serta keamanan sistem instalasi listrik, dengan mengacu pada ketentuan dalam Persyaratan Umum Instalasi Listrik (PUIL) tahun 2011. Analisis ini dibuat menggunakan metode Diagram alir penelitian yang dimulai dengan studi literatur, observasi, pengambilan data yang diperlukan. Untuk memperkuat data yang diperoleh, penulis melakukan evaluasi dan rekapitulasi data, serta perhitungan seperti kuat hantar arus, luas penampang, nilai MCB, dan gambaran sistem, terakhir analisis data sesuai standar serta kesimpulan. Hasil penelitian menunjukkan bahwa analisa sistem instalasi listrik di Rumah Sakit Rizani baik secara umum dan stndart puil telah memenuhi standar yang berlaku, baik dari segi penggunaan komponen, tata letak instalasi, maupun efisiensi distribusi daya. Oleh karena itu sistem instalasi listrik di Rumah Sakit Rizani dapat di terapkan di beberapa rumah sakit di Indonesia sebab memenuhi standar yang berlaku dan mendukung operasional yang aman dan efisien.

Kata kunci : Analisis, Instalasi listrik, K3, Audit energi, Kinerja.

**ELECTRICAL INSTALLATION SITE ANALYSIS FOR
RIZANI HOSPITAL, PAITON**

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ABSTRACT

This study aims to identify the actual condition and performance of the electrical installation system, evaluate the compliance of the electrical installation system at Rizani Hospital with applicable occupational safety and health (K3) electrical standards, and analyze potential problems and risks that could impact the reliability and safety of the electrical installation system, referring to the provisions of the 2011 General Requirements for Electrical Installations (PUIL). This analysis was conducted using a research flowchart method that began with literature review, observation, and data collection. To strengthen the data obtained, the author conducted an evaluation and recapitulation of the data, as well as calculations such as current carrying capacity, cross-sectional area, MCB value, and system overview. Finally, the data analysis according to standards and conclusions were drawn. The results of the study indicate that the analysis of the electrical installation system at Rizani Hospital, both in general and according to PUIL standards, meets applicable standards, in terms of component use, installation layout, and power distribution efficiency. Therefore, the electrical installation system at Rizani Hospital can be implemented in several hospitals in Indonesia because it meets applicable standards and supports safe and efficient operations.

Key words: Analysis, Electrical installation, K3, Energy audit, Performance.