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Evaluasi kinerja penggelaran jaringan fiber optik berbasis air blown fiber technology: studi proyek apartemen di Depok = Performance evaluation of fiber optical network based on air blown fiber technology: study of apartment projects in Depok

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Abstrak

Penggelaran jaringan fiber optic saat ini sedang pesat pesatnya dilakukan di hampir seluruh wilayah Indonesia, khususnya di kota Depok. Modernisasi infrastruktur terus dilakukan oleh operator dan provider telekomunikasi. Untuk mendukung semua aplikasi digital dengan media transmisi Fiber Optik. Potensi yang sangat besar di Depok dengan berbagai bidang menjadi sangat menarik investasi dan penggelaran jaringan telekomunikasi termasuk didalamnya. Buruknya lingkungan terdampak galian, estetika yang rendah dengan banyak tiang, waktu penggelaran lama dan biaya mahal menjadi masalah utama. Penggunaan Blown Fiber diharapkan menjadi solusi terbaik dengan metode penggelaran Burial, Aerial, dan Kombinasi yang bisa saling melengkapi. Analisis Benefits Cost Ratio Analysis, Sensitivitas Fungsi Biaya Investasi dan Rekomendasi Faktor Penggelaran Ideal dengan parameter Lingkungan, Cost Benefit, Trend dan Kebaruan Teknologi menjadi bahasan penelitian. Kelayakan 3 metode penggelaran, blown fiber sebagai solusi penggelaran utama dan potensi Ducting yang belum teroptimalisasi.
.....The deployment of fiber optic networks is currently undergoing rapid growth in almost all regions of Indonesia, especially in the city of Depok. Infrastructure modernization continues to be carried out by telecommunications operators and providers. to support all digital applications with Fiber Optic transmission media. The huge potential in Depok with various fields has become very attractive for investment and deploying telecommunications networks including. Poor environmental impacted by excavation, low aesthetics with many poles, long deployment time and high costs are the main problems. The use of Blown Fiber is expected to be the best solution with Burial, Aerial and Combination methods that can complement each other. Benefits Analysis Cost Ratio Analysis, Sensitivity of Investment Cost Functions and Recommendations for the Ideal Performance Factor with Environmental, Cost Benefit, Trend and Technology Novelty parameters are the research topics. The feasibility of 3 deployment methods, blown fiber as the main deployment solution and the potential for ducting that has not been optimized.