

ABSTRAK

Perencanaan Sistem Jaringan Irigasi Masam Bulau Kecamatan Tanjung Sakti Kabupaten Lahat Sumatera Selatan

Perencanaan Sistem Jaringan Irigasi Masam Bulau Kecamatan Tanjung Sakti Kabupaten Lahat Sumatera Selatan dilakukan untuk memperoleh sistem irigasi yang mampu mendistribusikan air secara efektif dan efisien guna memenuhi kebutuhan air lahan pertanian. Perencanaan ini menggunakan data curah hujan, data klimatologi, data topografi, peta jaringan irigasi, serta data pendukung lainnya sebagai dasar analisis. Analisis hidrologi meliputi analisis curah hujan, evapotranspirasi, curah hujan efektif, debit andalan, kebutuhan air irigasi, hingga perencanaan dimensi saluran dan bangunan pelengkap. Selain itu, dilakukan penyusunan Analisis Harga Satuan Pekerjaan (AHSP), Rencana Anggaran Biaya (RAB), penjadwalan proyek, serta Rencana Kerja dan Syarat-Syarat (RKS). Nilai Rencana Anggaran Biaya (RAB) proyek sebesar Rp 830.946.000 (Delapan Ratus Tiga Puluh Juta Sembilan ratus Empat Puluh Enam Ribu Rupiah) dengan waktu pelaksanaan selama 115 hari kalender.

Kata kunci: Jaringan Irigasi, Ketersediaan Air, Kebutuhan Air Irigasi, Dimensi Saluran, Rencana Anggaran Biaya.

ABSTRACT

Planning of the Masam Bulau Irrigation Network System in Tanjung Sakti District, Lahat Regency, South Sumatra Province

The Masam Bulau Irrigation Network System Planning in Tanjung Sakti District, Lahat Regency, South Sumatra, was conducted to develop an irrigation system capable of distributing water effectively and efficiently to meet agricultural water demands. The planning process utilized rainfall data, climatological data, topographic data, irrigation network maps, and other supporting data as the basis for analysis. The hydrological analysis included rainfall frequency analysis, distribution goodness-of-fit tests, evapotranspiration, effective rainfall, dependable discharge, irrigation water requirements, and the design of irrigation channels and supporting structures. In addition, the planning included the preparation of the Unit Price Analysis (AHSP), Cost Budget Plan (RAB), project scheduling, and the Work Plan and Specifications (RKS). Furthermore, the total estimated project cost is IDR 1,963,842,000.00, with an implementation period of 120 calendar days.

Keywords: Irrigation Network, Dependable Discharge, Irrigation Water Requirement, Canal Design, Cost Estimate.