

ABSTRAK

Perencanaan Dermaga *Heritage Oil* di PT. Kilang Pertamina Internasional TUKS Unit III Plaju – Sei Gerong

Perencanaan dermaga *Heritage Oil* di PT. Kilang Pertamina Internasional TUKS Unit III Plaju – Sei Gerong ini bertujuan untuk merancang struktur dermaga yang aman, efisien sesuai SNI. Data input meliputi kondisi hidrologi, geoteknik, dan spesifikasi kapal yang dilayani. Analisis struktur menggunakan perangkat lunak SAP2000 dengan mengacu pada SNI 2847:2019 dan SNI 1727:2020. Berdasarkan perhitungan, ukuran pelat dermaga pada perancangan ini yaitu 82 m dengan lebar 16 m. Balok direncanakan dengan dimensi 35 cm x 70 cm serta menggunakan pondasi tiang pancang *spun pile* berdiameter 40 cm.. Dalam perhitungan Rencana Anggaran Biaya (RAB) diperlukan biaya total sekitar Rp 15.283.990.000 (Lima Belas Miliar Dua Ratus Delapan Puluh Tiga Juta Sembilan Ratus Sembilan Puluh Ribu Rupiah).

Kata Kunci: Perencanaan Struktur, SAP2000, Dermaga.

ABSTRACT***Heritage Oil Dock Design at PT. Kilang Pertamina Internasional
TUKS Unit III Plaju – Sei Gerong***

The planning of the Heritage Oil dock at PT. Kilang Pertamina Internasional TUKS Unit III Plaju – Sei Gerong aims to design a dock structure that is safe, efficient, and compliant with SNI standards. Input data include hydrological and geotechnical conditions as well as specifications of serviced vessels. Structural analysis is conducted using SAP2000 software referring to SNI 2847:2019 and SNI 1727:2020. Based on calculations, the dock slab dimensions in this design are 82 m in length and 16 m in width. The beam is designed with dimensions of 35 cm x 70 cm, supported by spun pile foundation with 40 cm diameter piles. The estimated total project cost in the Budget Plan (RAB) is approximately IDR 15,283,990,000 (Fifteen Billion Two Hundred Eighty-Three Million Nine Hundred Ninety Thousand Rupiah).

Keywords: Structural Design, SAP2000, Dock.