Desain Tangki Penyimpanan Avtur Kapasitas 2.000 KL di Depot Pengisian Pesawat Udara (DPPU) Kertajati = Design of an Avtur Storage Tank with a Capacity of 2,000 KL at the Aircraft Filling Depot (DPPU) Kertajati

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Abstrak

Pembangunan tangki avtur di DPPU Kertajati diperlukan sebagai tindak lanjut pemerintah terhadap pembangunan Bandarudara Internasional Jawa Barat (BIJB) di Kertajati, Majalengka. Praktik keinsinyuran bertujuan untuk mendesain tangki avtur kapasitas 2000 KL. Tangki avtur berkapasitas 2000 KL didesain berdasarkan perhitungan yang mengacu pada Code dan Standard yang berlaku secara internasional API 650 dan JIG 2. Data dianalisis dengan menggunakan Microsoft Excel. Berdasarkan hasil desain sesuai API 650, tangki avtur kapasitas 2000 KL yang akan dibangun di DPPU Kertajati memiliki diameter 18m dan tinggi 9.7m. Tebal plat bottom dan annular 8mm. Tebal shell pertama 8mm, kedua 8mm, ketiga 6mm, keempat 6mm. Tebal plat roof 6mm. Sedangkan desain tangki avtur berdasarkan JIG 2 harus dilakukan pengecatan pada sisi dalam tangki (internal coating), memiliki floating suction, memiliki tiga sampling point (upper, middle, lower) yang terkoneksi dengan sampling jar.
..... he construction of an avtur tank at the Kertajati DPPU is needed as a follow-up to the government's development of the West Java International Airport (BIJB) in Kertajati, Majalengka. The engineering practice aims to design an avtur tank with a capacity of 2000 KL. The avtur tank with a capacity of 2000 KL is designed based on calculations that refer to the internationally accepted Code and Standards API 650 and JIG 2. Data were analyzed using Microsoft Excel. Based on the design results according to API 650, the avtur tank with a capacity of 2000 KL, which will be built at the Kertajati DPPU, has a diameter of 18m and a height of 9.7m. The bottom and the annular plate thickness is 8mm. The first shell thickness is 8mm, the second 8mm, the third 6mm, and the fourth 6mm. The roof plate thickness is 6mm. While the avtur tank design based on JIG 2 must be coated on the inside of the tank (internal coating), have floating suction, and have three sampling points (upper, middle, lower) connected to the sampling jar.