

## Analisis kebutuhan sistem perpipaan pada self-propelled oil barge kapasitas 1,100 kl = Analysis of piping system needs in self-propelled oil barge capacity 1,100 kl

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### Abstrak

Untuk memenuhi kebutuhan bahan bakar minyak (BBM) di Indonesia, dibutuhkan moda transportasi agar BBM dapat terdistribusi di berbagai penjuru daerah khususnya daerah pedalaman yang memiliki perairan dangkal. Self-Propelled Oil Barge (SPOB), sebagai moda transportasi yang sesuai dengan keadaan tersebut, memerlukan sistem perpipaan. Pada tugas akhir ini, penulis membahas mengenai perancangan sistem perpipaan dengan prioritas pada sistem perpipaan muatan. SPOB ini dirancang untuk dapat mengangkut tiga jenis muatan yang berbeda. Perancangan sistem perpipaan menggunakan standar Japanese Industrial Standards (JIS), badan klasifikasi ClassNK, MARPOL, dan SOLAS.

.....To satisfy needs of fossil fuel in Indonesia, modes of transport is needed. Therefore, fossil fuel can be distributed across the country, especially in rural areas which has shallow water. Self-Propelled Oil Barge (SPOB), as a mode of transport which is suitable for that condition, needs piping system. In this final project, the author explains about design of piping systems with oil cargo piping system as the main concern. This SPOB is designed to be able to load three different types of fossil fuel. The piping system design uses these standards, such as Japanese Industrial Standards (JIS), ClassNK classification society, MARPOL, and SOLAS.