Offshore Project and its Characteristic in Thailand

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ABSTRACT
This paper is an explanation of the offshore project characteristic in Thailand on the maritime development such as offshore ports and coastal structures. The offshore project in Thailand is an offshore port for import sub-bituminous coal from coal mine which shall be shipped to the power station. It also exports agricultural products and petrochemical to foreign country by seaborne transport. The projects are most developed in eastern and southern part of Thailand by government and private company developer.

KEY WORDS: Offshore Project; Maritime Project; Port Structures

INTRODUCTION
The government developer in Thailand has divided into two divisions such as Maritime Department and Port Authority of Thailand (PAT). Port Authority of Thailand is a government regulatory agency with responsibility port management and port business marketing of the government port project after accomplishment by Maritime Department. The project objective is development with according to national economic and social development with southern land bridge of two international ports as shown in Fig. 1 and Fig. 2. The land bridge is connected between Andaman Sea Port and Gulf of Thailand Port by land-based transportation such as roadway and railway for transfer the container and general cargo.

The land bridge project is land transportation with connected between two offshore ports by truck and rail for short sailing route and lower transportation cost from Middle East to Leam Chabang Port and Bangkok Port. The container can be transfer to China, Korea and Japan from Gulf of Thailand Port with short transport time and lower cost if compared the Malacca sailing route.

The private developer has developed the liquid cargo terminal project in an offshore area for export product to domestic market and international market. It also imports crude oil by subsea pipeline with single buoy mooring (SBM) at deep sea area to the petrochemical plant and onshore tank farm as shown in Fig. 3 and Fig. 4.

Fig. 1 Vessel transportation route and land bridge location (Marine Department, 2014)