THE PLANNING OF METHANOL LIQUID BULK JETTY IN BONTANG EAST BORNEO

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Abstract

Indonesia as one of the methanol producer with a production capacity of 330 million gallons per year, has an important role in the procurement of methanol on a national scale. It is characterized by the increasing need for the methanol industry will be expected to reach 34.175 billion up to 2020 gallons. This condition will provide a very promising business opportunities for companies in the domestic methanol producers. So that this opportunity can be utilized to increase production capacity and trading volume of methanol. In Indonesia itself, there are only two places exploration of methanol, which is in Tarakan and Bontang. Methanol is produced in Bontang, distributed domestically and overseas, particularly Asia.

With a large capacity that needs to be accommodated, then the required sea transportation that can distribute large amounts of methanol. For that, use a special vessel 46.383 DWT-sized methanol which serves routes inside and outside of industrial areas in Bontang. So it must be planned a special dock that could serve this ship. In Bontang itself, methanol existing jetty has a limited capacity, so that the necessary planning of a new methanol liquid bulk jetty is capable of adding distribution
capacity and feasible in operation up to 20 years. So that the distribution route of methanol from Bontang become fluent, safe and controllable.

This thesis aims to plan the layout of water and layout of jetty, calculation details of the structure, pond dredging plans and methods of implementation and budget plan of the jetty.

Based on calculation analysis, the result needs a nominal depth of the jetty at a depth of -14.5 m LWS, the needs of Loading Platform dimensions of 33 x 21 m², Trestle 69 x 5 m², Mooring Dolphin 6 x 6 m², and Breasting Dolphin 7.5 x 6 m², dredging volume up to 1825043 m³ and the overall budget plan up to Rp.107.626.251.464.

Key words: Bontang, Jetty, Layout, Structures, Dredging, Implementation Methods, Budget Plan.