Abstract

Abstract — Sorong District is one of the district in West Papua Province, Indonesia. The Capital city of the district is at Aimas. This district is one of the biggest oil producing district in Indonesia. It is also rich of mineral. One of them is petroleum reserves (crude) that is not much explored. Many of the world-class oil company are interested in investing and processing oil reserves in Sorong District. Wealth of this district especially from the sea is very abundant. If the society can manage this potential, then it will be the income source that’s so potential.

Because of the huge activity in oil refinery at Sorong district, and the high interest from the foreign companies and domestic companies for the oil refinery constructions in this district (West Papua), which is one of the greatest oil producing in Indonesia, causes a lot of construction activities for the oil refinery activity, that clearly need and use a lot of heavy tools and heavy equipments.

Salawati Logistic Shorebase Port is planned to be constructed to outcome the problem of logistic of heavy equipment. (such as Pile and the casing of bored pile, etc.). This final project will discuss the detailing structur of port and the dredging on the turning basin area. The port is planned will be shaped in rectangular with 200 x 30 m dimensions, also with the ± 40000m³ dredging on
turning basin area. The Implementation method that will be used for the dock construction is in-situ system. From the calculation analysis, we got the thickness of the plate is 30 cm, transverse beam with 60 x 90 cm dimension, crane beam with 70 x 110 cm. And the recapitulation of the budget plan is Rp 150,040,000,000,00

Key Words : Dock, dredging, Logistic Shorebase Port, in-situ.