Abstract

Tanjungwangi Harbour is a harbour that located on the eastern area of east java province. Which whitin the RTRW of east java province, tanjungwangi harbour is planned to be the main harbour. This harbour has quite big ocean sector of work, approximately 88 Ha and 8,8 Ha for the land sector of work. Based on its hinterland sector, tanjungwangi harbour makes alot of comodities, such as agriculture and plantation.

In order to sustain the loading and unloading activities on the harbour, it is necessary to conduct some development on the facilities and infrastructure of tanjungwangi container port. Pelindo III Company planned to increase the number of port based on Pelindo III Company Harbour development master plan.

This final project will discuss the detail engineering design of the pier and trestle structure with reference to the master plan for the development of a container port belongs to Pelindo III company. the planned dock dimensions shaped planned with the length about 261 m along with the trestle connecting path along the 52 m which is equipped with the abutment as a retaining wall. Method of execution used in the construction of piers and trestle structures using in-situ system. From the calculation, the size for dock plate is 40 cm thick, with a transverse beam dimensions of 80cm x 120 cm, elongated beam
with dimensions of 80cmx120cm, crane beams with dimensions of 110cmx165cm. The planned budget necessary for the construction of this dock is Rp. 281,052,955,261,00

Key Word : Port, Trestle, Container Harbour, In-Situ, Pelindo III Company