

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengimplementasian konsep BIM 3D, BIM 4D dan BIM 5D (Level 1) dengan software/BIM tools Tekla Structure dan Autodesk Naviswork Manage. Studi kasus penelitian adalah Data Perencanaan Fasilitas Sandar Kapal Sementara Pembangunan Pelabuhan Patimban, Kabupaten Subang, Provinsi Jawa Barat. Penelitian dilakukan dengan membuat BIM 3D model Fasilitas Sandar Kapal Sementara tersebut berdasarkan Detail Engineering Design. Selanjutnya dilakukan Quantity Take-off (BIM 5D-Level 1) dengan aplikasi Tekla Structures serta simulasi sequence kerja dengan aplikasi Naviswork Manage. Sasaran dari kegiatan ini adalah untuk mengetahui bagaimana BIM diimplementasikan pada fase perencanaan sebuah bangunan.

Kata Kunci : BIM, permodelan, qto, sequence, Tekla Structures, Naviswork

ABSTRACT

This study aims to determine the implementation of the concepts of BIM 3D, BIM 4D, and BIM 5D (Level 1) with software/BIM tools Tekla Structure and Autodesk Naviswork Manage. The research case study is Data on Planning for Temporary Vessel Mooring Facilities for the Construction of Patimban Port, Subang Regency, West Java Province. The research was carried out by making a 3D BIM model of the Temporary Vessel Facility based on the Detailed Engineering Design. Furthermore, Quantity Take-off (BIM 5D-Level 1) was carried out with the Tekla Structures application and a work sequence simulation with the Naviswork Manage application. This study aims to find out how BIM is implemented in the planning phase of a building.

Keywords: BIM, modeling, qto, sequence, Tekla Structures, Naviswork