Abstract

The office building of health and agriculture department of Gresik is located on DR.Wahidin Sudirohusodo St Gresik, with intermediate existing soil. For the force analyzing used 3D frame dimension. Dynamic response analysis method is used for the calculation of planning earthquake weight. The rule used here is regarding to the official design standard rules in Indonesia. Gresik is categorized in earthquake zone 2, while in this Final Project, gresik will be considered in earthquake zone 3, so in the structural redesign calculation of Official building Healthy and Agriculture Gresik regency used a calculation with Intermediate Moment Resisting Frame System (SRPMM). The main structure of Official building Healthy and Agriculture Gresik regency (beam, sloof, and column) and the secondary component (slab and stairs) which are used the reinforced concrete. While roof are using rigid joint structure with 1 types of roof. For the substructure used poer and sloof from reinforced concrete for the foundation used the piled foundation.

Keywords : 3D frame dimension, dynamic response, SRPMM.