ANALYSIS OF FACTORS CONTRIBUTING TO THE DAMAGE OF PUBLIC ELEMENTARY SCHOOL BUILDING IN TASIKMALAYA MUNICIPALITY

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ABSTRACT

Numerous of Tasikmalaya municipality local government’s (Pemda) asset’s namely public elementary school (SDN) buildings has been damaged. This research is conducted by survey and aims to identify the damage and the factors that is causing damage on SDN buildings in Tasikmalaya municipality. Identification of buildings are limited to the components of foundation, columns, beams, rafters, roof, floor, wall, frame ceiling, ceilings, and doors / windows. Methods of data collection is by using questionnaires that distributed to 55 SDN samples, with the school’s principal as respondent. The sampling technique is using purposive sampling that determination the number of sample based on certain considerations. The collected data were analyzed with descriptive analysis and factor analysis.

Based on the results of this research, the components that suffered most damage is the wall occurred in 51 of 55 SDN (92.73 %), followed by 72.73 % ceiling damage, damage to doors / windows 70.91 %, damage to the floor 67.27 %, damage to the ceiling frame 47.27 %, damage to the roof truss 40.00 %, and damage to roof 32.73 %, also damaged to columns 14.55 %. While the components with the least damaged is the beam with 1.82 % and 3.64 % of foundation.

Factors that causing damage to SDN buildings are human factors that is not applying anti-earthquake design or anti-pest; choosing low quality materials; poor construction; poor maintenance; misuse; and natural factors that is weather / climate influence; location / condition of unstable soil or soil as a habitat for pests, the termites which attack and mice are nesting, mold and mildew disease, as well as earthquakes. Of the many damage of components, natural factors are more dominant than the human factors.

Key words: factor analysis, school building, causing damage
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