

Data collection challenge in seismic risk-based assessment at Ranau Township

ABSTRACT

Seismic is an energy in the form of wave that will cause ground shaking and resulting in earthquake. Earthquake is a natural disaster that can bring damage to property, environment, and life. The structure of the building will determine the level of resistance when the earthquake occurs. Rapid Visual Screening is conducted to assess the durability and risk of building upon the earthquake events. There are some challenges faced during data collection including the topography of the study area, cooperation of the residents, time constraint and ground data limitation. This paper aim to describe the challenges encounter during data collection. Limitation and recommendation for future research also discussed in this paper. Data collection is a very crucial stage as it will determine the accuracy of the results and affect the findings of the research. From this data collection, it will help stakeholders, town planner and town authorities to plan the town and take precautionary measures against high-risk buildings in case of earthquake..