SUMMARY

Arifa Nurina Nadyila, Departement of Civil Engineering, Faculty of Engineering, University of Brawijaya, December 2017, Risk Management Analysis of Occupational Safety and Health (OHS) on Construction on Faculty of Agriculture Building in Brawijaya University, Academic Supervisor: Wisnumurti and Yatnanta Padma Devia.

A construction project must have a target time of work that must be completed quickly and precisely, but in fact there are things that hinder the project. Based on data reports International Labor Organization (ILO) every day there are about 6,000 fatal workplace accidents in the world. In Indonesia workplace accidents experienced by workers of every 100,000 workers and 30% of which occurred in the construction sector. Therefore, this study aims to identify the OHS risks faced and to classify any OHS risk that impedes performance. Furthermore, this study will provide the best solution to the health and safety risks that occur and know the level of compliance of the project to the standard of OHS risk management.

The process of this survey was conducted by distributing questionnaires to the respondents of workers in the project of Building Faculty of Agriculture Universitas Brawijaya, which the questionnaire is based on OHS risk that may occur. Questionnaire results were analyzed for validity and reliability using SPSS 2.2. This type of risk was analyzed using AS / NZS 4360 (2004) matrix to determine the level of risk that occurred in the project. Based on results of the risk level, risk control will given. Furthermore, this study is calculate project compliance with OHS risk management standards by comparing the circumstances in the project with applicable OHS standards.

Result of validity and reliability test showed some invalid variable from 41 variables which submitted turned out to only 30 valid variables. The risk type analysis resulted 25, 3, and 2 variables for low, medium, and high risk variables, respectively. To minimize the risk level, risk control is required by engineering, administrative and personal protective equipment. The percentage of compliance on this project is 71.87%.

Keywords: occupational safety and health, personal protective equipment, reliability, risk, validity.