THE ASSESSMENT OF SUPPLY CHAIN RISK PERCEPTION AT BUILDING CONSTRUCTION PROJECTS IN SURABAYA

Name of student : Hendro Sutowijoyo
NRP : 3107 203 002
Advisors : Ir. I Putu Artama Wiguna, M.T., Ph.D.
Dra. Sri Pingit Wulandari, M.Si.

ABSTRACT

Supply chain is a method which is aim to improve service ability in producing products and services to the last users by using a series of production process. This method is trusted to bring many benefits and it has successfully implemented in manufacturing industry. In the future, this method is expected to be able to be applied into other industries including the construction project. The adoption of this new method does not mean that it will not create new problems. Therefore, this research expected to give deeper description about supply chain especially related to the risks it causes.

This study aims to know risk level by using the probability impact analysis, to get the most dominant risk factor by using factor analysis and to know the correlation between risk level and risk factor in terms of the supply chain of construction project. The research is conducted using a survey of respondents’ risk perception toward the doers of the supply chain in building construction projects; those are contractors, subcontractors, and suppliers in Surabaya.

The result shows that, between contractors and subcontractors, those variables in the high risk category include in the factor of ability; while between subcontractors and contractors, the variables include in the factor of financial and responsibility and the factor of resources. Between contractors and suppliers, variables in the high risk category include in the factor of cost and rejection and the factor of ability; on the other hand, between suppliers and contractors, the variables include in the factor of financial, ability, and responsibility. In the relation between subcontractors and suppliers, variables in the high risk category include in the factor of ability and law also the factor of ability, responsibility, and financial; on the contrary, between suppliers and subcontractors, the variables include in the factor of relation closeness, ability, and responsibility.

Keywords: Supply chain, Risk, Probability impact analysis, Factor analysis
(Halaman ini sengaja di kosongkan)