

**DETERMINATION OF PERFORMANCE  
INDICATORS FOR COOKING OIL LOGISTIC USING  
FUZZY-DELPHI METHOD**

**FINAL PROJECT REPORT**

**UNIVERSITAS ANDALAS**

**NUR PUTRI HIDAYATI**

**1210932013**

**Supervisor:**

**Dr. RIKA AMPUH HADIGUNA, IPM**



**DEPARTMENT OF INDUSTRIAL ENGINEERING  
FACULTY OF ENGINEERING  
ANDALAS UNIVERSITY  
PADANG**

**2017**

## ABSTRACT

Logistic issues are still become a serious matter for Indonesian society. This problem should be seriously considered by Indonesia. Many sectors that support logistic growth should be arranged properly in order to increase the value of performance of logistic in Indonesia. Agriculture sector is one of the sectors that has important role in national development integration. Unfortunately, production growth for this sector is still relatively low compared to some other sectors with value 1.85%. One of the agricultural sectors in Indonesia was palm oil plantations that produces cooking oil. Currently, Indonesia was suspected by having problems on the cooking oil distribution. Cooking oil distribution margins are tending to increase, while margin is one of the efficiency indicators in distribution system. The increasing of distribution margin indicates that the distribution of the commodity is inefficient. Thus, we need to improve efficiency and effectiveness in all logistics activities. The issue is, what are the relevant indicators to manage the logistics of cooking oil in an effort to improve the efficiency and effectiveness. Determination of performance indicators can be done by getting the opinion and consensus of the experts who understand the logistics of cooking oil. The method used is the Delphi method that will integrated with fussy method. The method is called Fuzzy-Delphi method.

This research proposed 20 indicators that retained from total 34 indicators. They were divided into 8 lean indicators, 8 agile indicators and 4 green indicators. These indicators worthwhile to assist companies in developing strategies for improving enterprise performance and can be used as a standard of performance assessment.

**Keywords:** Cooking Oil, Fuzzy Delphi Method, Logistic, Performance Indicators

