ABSTRACT

The halal products are dominated the demand of Moslem customers, for example in Indonesia. This preference leads to the development of halal-food industry in Indonesia to produce the well-compete products among other countries that also put concern on halal-food. The urge to achieve the goal is supported by the government through the released of halal products regulations. The Halal Product Guarantee (JPH) is defined as the halal standards that obliged to be fulfilled by halal-industry executants. On the whole, the demand of halal certification to Indonesian Council of Religious Scholars (MUI) has raised up in recent years. However, according to the company, there is still an absence in the reference clarity that boldly state whether a manufacturing mechanism can be labelled as halal. Therefore, the designed monitoring system is urgently needed to measure the company's supply chain.

This research used AHP method to weight the conventional metric that obtained from the SCOR model. The conventional metric is integrated from the halal metric that fit to the standards from Indonesian Council of Religious Scholars (MUI). The weighting process is done after the conventional metric is approved by the company which in accordance to its business process, while the halal metric is not weighed. Furthermore, the weighed metric is normalized to obtain a uniform metric value. Later, the measurement of manufacturing works are translated into a monitoring system with a web based display.

The working mechanism measurement system designed by Vannisa Brownies Bandung resulted to 15 conventional metrics that distributed into 4 work attributes which are Reliability, Responsiveness, Cost, dan Asset Management. Meanwhile, the 5 halal metrics are divided into halal production and halal packaging metrics. The monitoring system can reveal the whole result of company's performance, historical data, and the achievements done by the company in production and packaging aspects.

Keywords: AHP, certificate halal, monitoring system, MUI, supply chain, performance measurement system