

## ABSTRACT

PT Glostar Indonesia (GSI) is a manufacturing company that specializing in the footwear manufacture. The company is classified as a ODM (Original Design Manufacturer) company, which was sued their quality of product by the OEM (Original Equipment Manufacturer) company that cooperate with them. Thus the company was considering the quality of raw materials in the supplier.

One of the problem that happened at PT GSI is often changed-instead of raw material suppliers, especially for local suppliers. Based on data in 2010 found that the company has been changing suppliers as much as 17 times to five different raw materials. This is because the company already does not match the quality or services provided by suppliers. Meanwhile, suppliers who register with the PT GSI quite a lot, so it gives tight competition. On the other hand, the existing supplier selection system is still manual. This will lead to irregular documentation, length of time in supplier selection process, as well as the possibility of errors calculation and large subjectivity. Seeing this condition, company needed a supplier selection system that completely accurate so that company is not disadvantaged and reduce the level of subjectivity.

One method that is widely used by researchers in the suppliers selection and evaluation is AHP (Analytical Hierarchy Process). AHP method is the basic thinking process of establishing a numerical score to compile rankings of each alternative decision alternatives based on how it should be matched with the criteria for decision-makers. By outlining a hierarchy of criteria to be used in selecting and evaluating suppliers, such as the logistical performance criteria, commercial structure, and production. Then give weight to each criteria based on interest rates in pairs, that is for supplier selection obtained 0.408 to logistical performance, 0.266 to commercial structure, and 0.329 to production, while the weighting of criteria for suppliers evaluation obtained 0.309 to logistical performance, 0.294333 to commercial structure, and 0.398 to production.

Finally, it is can concluded the suppliers selection and evaluation system with a logical and systematic approach so can make decision-making process becomes more structured and accountable. In addition for the system design can be used easily then made in the form of information system. Functionally, the system can help the company, especially to the PPIC department in suppliers selection and evaluation process.

Keywords: Supplier Selection and Evaluation, AHP, Information System