ABSTRACT

DECISION SUPPORT SYSTEM SUPPLIER SELECTION IN SELECTING THE BEST SUPPLIER SPAREPARTS AT THE FEDERAL NITTAN INDUSTRIES COMPANY

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Supplier selection is right for the company or the industry need to do to get a supplier who really is able to meet the needs of companies consistently.

PT. Nittan Federal Industries, a company engaged in the field of engine valve. Supplier selection by PT. Nittan Federal Industries is one important aspect of ensuring the smooth operations of the company. While the supplier selection process in the system when the raw material is deemed less efficient firms, in particular when the company should contact one by one supplier via the telephone to get the best deals of a particular raw material requirements of the course time consuming and less efficiency. Companies also often feel confused when it comes to doing the assessment to get one as well as suppliers offering the best service.

This research will be appointed a case of finding the best alternative Based on the criteria that have been determined with Fuzzy Multiple Attribute mengggunakan Decission Making (MADM) method Simple Additive weighting (SAW). This method was chosen because it is able to select the best alternative from a number of alternatives, in this case the alternatives are intended which was to determine the best suppliers based on disupplai items based on specified criteria.

Based on test results, a system built to help the working parts purchasing in conducting the screening suppliers, able to handle the processing and data management, can accelerate the process of selecting suppliers, and can simplify the purchasing staff in determining the appropriate supplier selection and appropriate.

Keywords: DSS, FMADM, SAW, CRITERIA