

## ABSTRACT

*PT Styrimdo Mono Indonesia (SMI) is a chemical industry that produces Styrene Monomer whose main basic ingredient is a chemical, namely Benzene or gasoline. In fulfilling its main basic material, PT Styrimdo Mono Indonesia requires spare parts that are used during the company's production process. These spare parts are obtained through vendors or suppliers who cooperate with the company. There is a problem experienced by PT Styrimdo Mono Indonesia in the vendor or supplier management process, namely the lack of efficiency and effectiveness of the company in the process of managing all vendors or suppliers who work with the company in meeting the company's needs in terms of evaluating or assessing vendor performance. The problem occurs because there are many vendors who must be given an evaluation of their performance.*

*The design of a management information system in this final project research uses the waterfall method which has five stages, namely; communication is communication between programmers and users to analyze problems and collect the required data; Planning is a description of the estimated tasks and techniques to be carried out and the tools to be used; Modeling is a prototype design; Construction is the stage of interpretation of a prototype design into a form of code that can be translated by a computer; Deployment is the implementation stage of a system that has been formed as well as the process of repairing and evaluating the system.*

*The final result of the research is an integrated management information system with the benefit of being able to display all data about vendors, one of which is evaluating vendor performance so as to increase the efficiency and effectiveness of data to be more accurate with real time assessments.*

**Keyword:** Management Information System, Waterfall Method, Supplier