

## ABSTRACT

### **PERANCANGAN BUSINESS BLUEPRINT BERBASIS *ENTERPRISE RESOURCE PLANNING* (ERP) PADA MODUL *PLANT MAINTENANCE* MENGGUNAKAN SAP DENGAN METODE ASAP DI PT. KALDU SARI NABATI INDONESIA**

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*PT. Kaldu Sari Nabati Indonesia is a company moved in food and soft drink industry. PT. Kaldu Sari Nabati Indonesia produce food and soft drink brand product that have been known by many customer such as richeese and richoco. These products are the result of a combination of selected raw material with modern production process to produce a quality and nutritious products.*

*With the increasing process of food and beverage production is getting higher, then the maintenance machinnary and production equipment becomes very important. In the maintenance machinary and production equipment activity in PT. Kaldu Sari Nabati Indonesia there are 4 activity that is Preventive Maintenance, Corrective Maintenance, recalibration machine and production equipment, and maintenance machinary and production equipment with an external resources.*

*But in this case PT.Kaldu Sari Nabati Indonesia doesnt have system yet so that the document history regarding the maintenance of machines and production equipment is not documented by the system. Besides, processing process and documentation of the maintenance history document still uses paper form, this results in a process that occurs repeatedly input in Microsoft Excel or there are missing document paper. With the problems are highly vulnerable will damage and loss of documents in maintenance activities that can make maintaince history is not documented well. All these thing are caused by the absent of real time system and integrated so it can not support the maintenance machinary and production equipment parts to make document related to process of a maintenance machinary and production equipment.*

*To overcome these problems then do the design of integrated ERP system that the data on the maintenance machinary and production equipment process can be documented well and mutually integrated between related sections. According to*

*the problem on PT. Kaldu Sari Nabati Indonesia, proper solution can be done with make an Enterprise Resource Planning (ERP) design. ERP is a system can be used to integrated and coordinating an information in every business area on the company. Designing this ERP system is using SAP (System, Applications, Production in Data Processing) application with Plant Maintenance module this is because SAP ERP is suitable for companies with high production complexity.*

*Designing ERP method is used by the author to obtain success in the implementation of SAP is by Accelerated SAP (ASAP). ASAP consist of 5 phase including Project Preparation, Business Blueprint, Realization, Final Preparation and Go-Live and Support (Jithin, 2007). This research using ASAP method until business blueprint phase. Results of this analysis can be a design about the new proposed business process (Hossana, 2014). Proposal business process is done after analysis, identification, and maping business process, form, data based on needs of PT. Kaldu Sari Nabati Indonesia (As Is) or business process om SAP ERP application and analysis of gap and fit. After that design of business process proposed can be done in accordance with the results of the adjustment. After doing a proposed business process there is a business blueprint design and integration design between Plant Maintenance part and Quality Management.*

**Keywords: ERP, SAP, Plant Maintenance, ASAP, Business Blueprint.**