

Abstract

After the spin-off as a Holding Company of Indonesian fertilizer company which is currently held by PT. Pusri Holding, PT. Pupuk Sriwidjaja Palembang had problems in the application of Enterprise Resource Planning (ERP), namely Industrial and Financial System (IFS), related with data integrity service companies primarily on the financial side. Moreover, the improvement of the company's business goals should be done through business processes expansion and by making Information Technology (IT) as a Center of Excellence. PT. Pupuk Sriwidjaja Palembang needs to upgrade or replace IFS and also need Information Technology Governance (ITG) so that the process of improvement and replacement of ERP is running effectively and efficiently. It is also needed as a fulfillment of directives from the Ministry of State-Owned Enterprises, that the implementation of ITG for all of the Indonesian fertilizer company under the ministry must be using COBIT 4.1 which has not been implemented by PT. Pupuk Sriwidjaja Palembang.

By implementing COBIT 4.1, the company is expected to be able to optimize the contribution of IT as a center of excellence in the middle of the condition of the obsolete fertilizer plant. It is hoped that IT can be contributed to align the IT strategy with the corporate strategy so as to guarantee the achievement of short-term and long-term company goals that has been established.

In this research, early analysis phase is done by studying the company's business objectives through the Company's Long-Term Plan (RJPP) document, Long Term Plan of IT (RJP-TI) document, and also vision and mission of the company. The company's business goal is translated into the COBIT 4.1 business goals (Balance Score Card Perspective) and then the results will be translated into IT goals COBIT 4.1. IT Processes of company can be identified based on COBIT 4.1 after the translation of the IT Goals with IT process COBIT 4.1. By knowing all of the IT Processes of company, the Detailed Control Objective (DCO) as the internal control of company IT process that can be found and translated into the questionnaire of management awareness and maturity level, and to establish the OFI (Opportunities For Improvement).

The results of the audit of ITG of PT. Pupuk Sriwidjaja Palembang shows that there are 34 IT processes involved to produce 210 Detailed Control Objective, and the company's current maturity level is at level 3 (Defined Process) with TI conditions expected at the level 4 (managed and measurable).

According to the audit result, The solution to eliminate all of the risk and problems according to the data integrity service for the application of Enterprise Resource Planning (ERP) IFS is the improvement or the replacement this application with the new ERP to ensure the integrity of data and to get the integral integration with PT.Pusri Holding as holding company and the comprehensive integration of all the internal business processes. The information systems also need to be upgraded, especially for budgeting, marketing, shipping, maintenance, Key Performance Indicators (KPI), finance, human resource, logistics, and security. The company can increase the involvement of the management by creating or improving the Critical Success Factors (CSF) and determine the Key Goals Indicators (KGI) and Key Performance Indicators (KPI). The implementation of IT Governance using COBIT 4.1 also must be monitor and evaluate periodically and continuously for support the achievement of every company's business goal on RJPP by maximizing the IT contribution, and also giving the employees a planned training and education for supporting its IT Governance.

Keywords: *Enterprise Resource Planning (ERP), IT Governance, COBIT 4.1, PT. Pupuk Sriwidjaja Palembang, Management Awareness, Maturity Level*