

ABSTRACT

PT. Total E & P Indonesia is a multinational company engaged in the exploration and production of oil and natural gas. As a large company, Total has implemented IT as one way to achieve corporate business objectives. In order for IT investments that have been issued by companies comparable with the goal to be achieved, of course, good IT Governance must be applied. During this, IT governance in PT. Total is already leading in the right direction, both in systems integration, security and tidiness in supporting enterprise business objectives. However, there is still a process that must be addressed and made its information systems but ignored by management because of the vast area of IT governance.

Therefore, at this research, it will be carried out audits of information systems to assess IT Governance which has been running at PT. TOTAL E & P Indonesia in the domain of planning and implementation using COBIT Framework 4.1. The results of this study are value scale Maturity Models and recommendations set forth in the OFI (Opportunities for Improvement) to the management company to support the improvement of IT Governance in achieving company goals and provide meaningful inputs for the company.

COBIT 4.1 is a framework that has contributed to linking information technology to the needs of corporate business, manage IT activities into a process model that can be accepted in general, identifying significant IT resources, and will describe the objectives of the controlling interest of IT. The end result is the value of the COBIT maturity (maturity level) as an evaluation method for the control of the company's IT processes. Maturity Levels in COBIT IT Governance based on an assessment made at the company, the level of maturity starts from level 0 (non-existent) to 5 (optimized).

Implementation of the audit begins by conducting literature study and field, which aims to identify the vision, mission and corporate objectives and identify IT Resource the company uses today. Further identification Business Goals, IT Goals, IT Process, Control Objective, and Management Awareness of company based on COBIT framework for producing Maturity Level both actual and target maturity expectations. OFI generated after identifying the Gap Analysis between actual and target maturity level expectations.

From these results, the conclusion is in the domain of planning and implementation, there are 16 IT processes and 111 detailed control objectives in the company. In addition, the actual level of maturity of IT processes at the company are at level 4 which is being managed and measurable targets expectation is 5. It shows that IT Governance at PT. Total not yet optimal. To achieve the target expectations, it's designed OFI which includes prioritization and making improvement plans in accordance IT business processes.

Keywords: *COBIT, IT Governance, Information System Audit, Maturity Level, OFI*