

ABSTRACT

ENTERPRISE ARCHITECTURE AS A STRATEGY IN THE QUALITY STANDARDIZATION OF PROCUREMENT AND MATERIAL MANAGEMENT IN MATERIAL MANAGEMENT FUNCTION FOR INDUSTRIAL AND MANUFACTURING COMPANIES USING TOGAF ADM

By

Ridoh Gusti Marho

NIM : 1202160222

In the globalization era Information Technology (IT) have been rapidly, so that in the company needful the effective and efficient integrations for information systems and information technology. Industrial and Manufacturing Company is a state-owned enterprise (SOE) company engaged in the Armaments Systems Main Tool (Alutsista) and Commercial Products. Industrial and Manufacturing Company has a vision “be a global leading company in the manufacturing and commercial products in 2026”. To achieve this vision, Industrial and Manufacturing Company needs an IT master plan as a reference from the SOE RI ministerial regulation No. PER-03/MBU/02/2018 concerning guidelines for the preparation of SOE information technology points 5.2.2 concerning IT designation that every SOE is required to have IT master plan for 3-5 years and periodically reviewed which aims to ensure the alignment of business with IT, in accordance with the role of IT in SOEs.

In order to meet the Minister of SOE RI regulation No. PER-03/MBU/02/2018 needed an Enterprise Architecture design. Enterprise Architecture is an organizational blueprint that is used to show the whole company, including all information, technology service, processes and infrastructure as well as the company’s domain (The Open Group, 2009). In this study the design of Enterprise Architecture Industrial and Manufacturing Company is focused on the Material

Management function which is responsible for managing material procurement starting from searching for vendors. Designing and controlling material procurement, the need for monitoring and evaluating the material procurement process and the vendor.

In this study, in designing Enterprise Architecture using the framework of The Open Group Architecture Framework (TOGAF) with the Architecture Development Method (ADM) methodology. TOGAF ADM itself has four domains that have covered the entire core domain in the company from of business, data, applications and technology. Phases used in the design of Enterprise Architecture in TOGAF ADM consist of the Preliminary Phase, Architecture Vision, Business Architecture, Information System Architecture, Technology Architecture, Opportunities and Solution and Migration Planning. The output of the Enterprise Architecture design in the form of artifacts in the TOGAF ADM component will be the blueprint of the Enterprise Architecture design, and the IT roadmap as a reference for designing, implementing and developing the Material Management function in Industrial and Manufacturing Companies.

Keywords: Industrial and Manufacturing Company, Information Technology (IT), IT Master Plan, Enterprise Architecture, TOGAF ADM, Procurement, Material Management.