

ABSTRACT

(RIZKY TRI PAMUNGKAS, 2023) IMPLEMENTATION OF THE CONCEPT OF BUILDING INFORMATION MODELING (BIM) IN ESTIMATING THE COST OF THE STRUCTURAL WORK PROJECT FOR THE DEVELOPMENT OF THE OFFICE OF FISHERIES AND LIVESTOCK DEPARTMENT OF OKU DISTRICT. (THESIS SUPERVISOR: IR. HJ. LNDAWATI, MZ, M.T. AND AZWAR, M.T.)

Along with the times, technology is developing very quickly. Technology is now a support in completing work in order to achieve more effective and efficient results. In the world of construction, technology is currently experiencing improvements and continues to grow along with the increasing number of infrastructure developments, especially in Indonesia. One of the technological innovations in the world of construction is Building Information Modeling (BIM), a technology capable of increasing work effectiveness. However, the application of Building Information Modeling (BIM) is still lacking in Indonesia. This study discusses the application of the Building Information Modeling (BIM) concept using Autodesk Revit software in the development project of the OKU District Fisheries and Livestock Service Office which from planning still uses conventional methods or calculations based on Autocad assisted with Microsoft Excel which allows human error to occur so that calculations The Budget Plan (RAB) becomes inaccurate. To generate data in the form of work costs with the BIM concept, first model the data that has been obtained from the project owner so that it will produce data in the form of work volume so that it can be calculated using Work Unit Price Analysis from project data so that it will produce a cost estimate. Based on the results of the research that has been done, the calculation results for structural work are Rp. 2,195,010,170.43.

Keywords: Building Information Modelling (BIM), Autodesk Revit, Estimated costs, Structural, RAB