

## **ABSTRACT**

### ***ANALYSIS OF IMPLEMENTATION OF BUILDING INFORMATION MODELING (BIM) 4D TOWARDS ACCELERATION OF SCHEDULING USING FAST TRACK METHOD (CASE STUDY: ROYAL EXECUTIVE HOTEL DEVELOPMENT PROJECT)***

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*The development of construction projects occurs in various countries, one of which is Indonesia. In project implementation, the focus is on the constraints that often occur in construction projects, namely in terms of quality, time, and cost. In today's era, technology is developing rapidly in planning and implementing projects known as Building Information Modeling (BIM). In maximizing the planning and implementation of construction projects in terms of time, BIM 4D is applied. In this study, BIM 4D was applied through integration between BIM 3D and project scheduling using Navisworks. This study resulted in a comparison of scheduling simulations between normal scheduling and scheduling after the application of fast track acceleration. The application of the fast track method is carried out on work activities that are on the critical path of normal scheduling structural and architectural work. BIM 3D applied in this study is modeling of building structural and architectural work. From the results of this study, it was obtained that the acceleration of time using the fast track method on structural work cut 55 days or experienced an acceleration of 23.11% from normal time. This study shows how the comparison of 4D visualization between normal scheduling and after the application of acceleration. Through this, it can be easier to see the comparison of work progress.*

*Keywords: BIM 4D, Fast track, Time, BIM 3D Modeling*