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ABSTRACT

This report is about supervising of mechanical and electrical work. Mechanical and electrical is a very important process for a building. Therefore, this report aims to describe the process of installing electrical wires and telephone wires as well as the installation of air conditioning units. This task was carried out at Wisma Olefiera MPOB, Bandar Baru Bangi, Selangor. The objective of this report is to find out how to install electrical wires and telephone wires. In addition, the objective of this report is to find out how to install air conditioning units. It can supply energy and make it easier for people to do activities in an enclosed building. This shows that mechanical and electrical are very important to complete a building.

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CHAPTER 1.0

INTRODUCTION

1.1 Background of Study

M&E is a job in the construction of mechanical and electrical systems. M&E can be encompassed in the elements of infrastructure, plant and machinery, tools and components, heating and ventilation. M&E also includes the supply and distribution of power, telecommunications and computing instrumentation and control systems. It is clear that M&E is an overlapping component between mechanical and electrical. (Designing Buildings Ltd. 2022)

This electrical and mechanical field is a relatively new field in Malaysia. This field is also known as Building Services. Mechanical and Engineering (M&E) is a mechanical and electrical system installed and operated by a facility management company in facility management. (TAION Mechanical & Electrical Solutions Sdn Bhd. 2022)

Mechanical and electrical are one of the three most important components of a building besides architecture and structure. Architects prioritize beauty and structure is focused on strength, then mechanical and electrical present that function. It doesn't matter if the building is beautiful or unique but if it doesn't get good mechanical and electrical support, then the building will not work. (BCI Asia Construction Information Pte Ltd. 2018)