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Paving and Road Maintenance Works

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ABSTRACT

Pavement engineering is a process that utilized for the creation and maintenance of paved infrastructure. This pavement process is about to repair and maintain the condition of the road and more safety. There are have a lot of steps that need to follow for complete the pavement nicely. This report is about pavement work and also road maintenance that need to repair that old surface of road. The main objective in this case study is to explain about paving work and road construction maintenance that need to take note and take important information from the project. Another objective that have in this case study is to explain about machinery that been use in road construction with the function of the machinery. The objective for this case study need to achieve. Besides that, the pavement work need to be monitor carefully because the project that involves the use of hazardous equipment and machinery. Pavement is divide by a few category and types that can been use and apply in construction. This case study need a lot of information and knowledge to handle. The methodology that been use for get some information is through interview, observation and also notes. End the end of this case study is going well and a lot of information and knowledge that outcome during handling this case study.

CONTENTS	PAGE
NO	
Acknowledgements	4
Abstract	5
Contents	6
List of Tables	7
List of Figures	8
CHAPTER 1.0 INTRODUCTION	
1.1 Background of Study	9
1.2 Objectives	10
1.3 Scope of Study	10
1.4 Methods of Study	11
CHAPTER 2.0 COMPANY BACKGROUND	
2.1 Introduction of Company	12
2.2 Company Profile	12
2.3 Organization Chart	13
2.4 List of Project	
2.4.1 Completed Projects	14
2.4.2 Project in Progress	15
CHAPTER 3.0 CASE STUDY	
3.1 Introduction to Paving and Road Maintenance Work	16
3.2 To explain about paving work and road construction maintenance	18
3.3 To know about machinery that will been use for paving work and road construction maintenance	26
3.4 To determine the problem that happens when the project is going on	31
CHAPTER 4.0 CONCLUSION	32
REFERENCES	32

CHAPTER 1.0

INTRODUCTION

1.1 Background of Study

Road has become among one of the most important infrastructure equipment worldwide. History of the road construction was already commenced from China and Roman civilization since the birth of figures like Robert Philips and John Macadam. (Yu Liu, 2020) Ever since the era, the development of the road system in Malaysia continues to evolve over time as the way is one of the important aspects of human relationships primarily involves commercial activities. The need for efficient road networks and safety is very important and for that reasons, today's efforts in improving the ease and safety of road users is growing rapidly.

Construction of roads involves the paving, rehabilitation, or reclamation of degraded pavements to achieve a state of good repair and increase road traffic safety. Road construction involves the use of asphalt, liquid asphalt, concrete, soil stabilization, rebar, paving and pavement recycling machines, and other road repair materials. (Hasib Jamal, 2017). Roads are a very useful alternative other than the use of ventilation or irrigation systems to communicate and be used by the community. Road construction requires the use of more sophisticated and modern technology for the reason of maintaining the quality of work and it can also shorten the time for paving work.

The purpose of this road construction is to maintain roads that are damaged and in unsafe conditions for use by road users. This will cause accidents to occur due to uneven and potholed road conditions. Every road must be in suitable condition and safe to use. In addition, the use of equipment and materials for maintenance work must