



**DEPARTMENT OF BUILDING
UNIVERSITI TEKNOLOGI MARA
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**PRACTICAL REPORT TITLE
CONSTRUCTION OF RUGBY FIELD**

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ABSTRACT

Field is a facility that must have in every school and University for every student and staff. These include football, rugby, futsal courts and so on. These facilities can produce a healthy generation at the same time can highlight their talents in their respective interests as well as make Malaysia known all over the world. This report was conducted which uses leveling in the pitch of making process for develop a rugby field in MRSM Felda by En Hanif Bin Ibrahim. Besides that, the objective and the most important of this report is to analyze the construction of levelling and the way how it carried out which is rebuild and maintain the rugby field from zero until finish and take care of maintenance and fulfills the requirements given. This is because the condition of the field is very important to satisfy those who access it every day. This can happen if the contractor who built the field performs their work well and carefully when setting out from underground pipe planting for drainage, the process of surveying and levelling the soil to ensure less stagnant water after rain. This report also investigates the equipment that have been used such as dumpy level, levelling staff and tripod until grass planting process. Apart from the importance of field construction, this report shows field maintenance every month is also importance step to ensure the condition of the field is maintained such as grass cutting, no empty grass on the field and so on.

| CONTENTS | PAGE NO |
|---|----------------|
| Acknowledgements | i |
| Abstract | ii |
| Contents | iii |
| List of Tables | iv |
| List of Figures | v |
| | |
| CHAPTER 1.0 INTRODUCTION | |
| 1.1 Background of Study | 1-3 |
| 1.2 Objectives | 4 |
| 1.3 Scope of Study | 5 |
| 1.4 Methods of Study | 6 |
| CHAPTER 2.0 COMPANY BACKGROUND | |
| 2.1 Introduction of Company | 7 |
| 2.2 Company Profile | 8 |
| 2.3 Organization Chart | 9 |
| 2.4 List of Project | |
| 2.4.1 Completed Projects | 10-12 |
| 2.4.2 Project in Progress | 13-15 |
| CHAPTER 3.0 CASE STUDY OF CONSTRUCTION OF RUGBY FIELD | |
| 3.1 Introduction to Case Study | 16-18 |
| 3.2 To Identify Works and Machineries during Site Clearance | 19-21 |
| 3.3 To Explain Setting Out Works Implemented during The Construction | 22-28 |
| 3.4 To Determine the Importance of Rugby Field Maintenance Works | 29-30 |
| CHAPTER 4.0 CONCLUSION | |
| 4.1 Conclusion | 31 |
| | |
| REFERENCES | 32 |

CHAPTER 1.0

INTRODUCTION

1.1 Background of Study

This study is about construction of rugby field. Therefore, it involves a lot of land-related works. In the Diploma in Building syllabus, levelling is the matters that are closely related to this study discussed. This is very important in the context of surveying in construction. Levelling is the method which is to determine the height or level difference altitude on ground surface between 2 or more points (J. Clancy, 2013). As humans, we can feel the impact of not being level. This will make uncomfortable while lying down or walking on the ground.

Levelling is a technique that involves measuring the height of a ground point relative to the datum. This method is usually performed as part of a planimetric position survey. Levelling techniques are integral to the design and construction of field, homes and other structures. The force of gravity is the biggest factor affecting in every human's lives. There are also optical illusions that can make something look lower or higher. For example, if a puddle forms on the front door of house, it should not fall to the floor even if it rains. In this study, rainwater that stagnates on the field can be avoided due to the field profile which causes rainwater to flow sideways directly into the drain.

Leveling is one of the most commonly used methods in the context of surveying and measurements. Therefore, levelling can be divided into several big topics namely Direct Levelling, Trigonometric Levelling, Barometric Levelling and Stadia Levelling. For Direct Levelling, it is one of the most common levelling methods which is measurements taken directly from the leveling instrument. Moreover, direct level is divided into several types, namely Simple Levelling, Differential Levelling, Fly Levelling, Profile Levelling, Precise Levelling and Reciprocal Levelling.