

UNIVERSITI TEKNOLOGI MARA

**DESIGN, ANALYSIS AND FABRICATION OF
MANUAL TREE SPADE**

MOHAMAD NOOR IMAN BIN AZLIN

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ABSTRACT

There were many tools used in the industry of agriculture. A fabrication of a manual tree spade will be proposed to this project. The aim is to solve a specific problem in a scope of landscape management which to move moderate size plant position to another position as well as uprooting of sapling from the ground manually. The product can reduce the manpower by hoeing saplings around the sapling until the root to move to another position. The fabrication method will be used are measuring, welding, fastening and cutting process. In conclusion, the project will help many plantation owners and landscape managers to move the saplings easier.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Nowadays, there were so many tools used in the industry of agriculture and has been invented to be a better product in the meantime. There are many agricultures tool have been helped so many farmers and landscape architect doing their job in their daily life. The objective of this project is to produce the new design and a better function of the tool that already exist nowadays.

The manual tree spade is a tool that will give benefit people who are in agriculture activities. This tool will make their job to removing a death or living plant to a new place easier than before. This tool will make the removing process for the plant or sapling in minimum consummation of time and energy.

This manual tree spade project is estimated to provide better performance and easier to control than the existing manual tree spade with the addition of a blade to this tool, making this manual tree spade is more user friendly.

1.2 Problem Statement

In agriculture, in agriculture as well as landscape management, dealing with plants is common. But the method of tree removal used now is quite difficult to implement nowadays because it used heavy machine and a lot of cost. This project is estimated to make it easier to move saplings or make holes for the saplings to be moved manually. This project will also facilitate the process of cutting the roots of trees and can also facilitate a person in the process of lifting trees and the soil.

Therefore, the design of this project which is smaller will make the user easy on handling this tool to complete their work on removing the plant or tree from a place to another place