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BUSITEMA UNIVERSITY

FACULTY OF AGRICULTURE AND ANIMAL SCIENCES

AN INDUSTRIAL TRAINING REPORT CARRIED OT AT MOUNTAIN HARVEST SMC LT MBALE FROM 28TH/02-28TH -04-2022

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DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

04

DECLARATION

I Mutende Ronald hereby declare to the best of my knowledge that this report is my original work which was done by me under the supervision of Mr. Wasembula Brian Certification Officer Mountain Harvest SMC LTD. This report has never been submitted to any other institution, university for any award.

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10: 37335	

DEDICATION

I would like to dedicate this report to my family, lecturers, my field supervisor Mr. Wasembula Brian and all my friends who left whatever they would do and supported me academically. I pray that the almighty God rewards them abundantly.

CLASS NO. PAA 1813

ACKNOWLEDGEMENT

The complication of this work has been as a result of many individuals and it is practically impossible to mention all of them by name, however, my great appreciation goes to my field supervisor Mr. Wasembula Brian for his tireless advice otherwise it would have not been easy for me to finish this work, I pray that God reaches the blessings to him.

More appreciations still go to my parents for their financial support that they endeavored to provide for my education from primary up to university level, may the almighty God reward them abundantly.

My sincere thanks still go to my dear friends, service providers of Mountain harvest SMC LTD particularly Mr. Wasembula Brian Mr. Michael Vvubya, Wakwale Simon and Mayeku Emma for their tireless work they did to guide me all through during field work practice. I am grateful.

More appreciations still go to my lectures of Busitema University who trained me up to where I have reached, and I pray that God gives them all the blessings.

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LIST OF ABBREVIATIONS

BBW Banana Bacterial Wilt

BUAC Busitema university Arapai Campus

DAP Di- Ammonium Phosphate

DCP Department of Crop Production and Management

Dr Doctor

ICIPE International Center of Insect Physiology and Ecology

MIAAF Ministry of Agriculture Animal Industry and Fisheries

Mr. Master

NAADS National Agriculture Advisory Services

NARO National Agriculture Research Organization

NBRP National Banana Research Program

NDP National Development Program

NGO Non-Governmental Organization

PH Potential of Hydrogen

PHH Post-Harvest Handling

SSP Single Supper Phosphate

TSP Triple Ammonium Phosphate

MH Mountain Harvest

ICS Internal Control System

LWR Lutheran World Relief

LLC Limited liability company

SMC Small scale company

MoUs Memorandum of understanding

FA Field Agronomist

LIST OF TABLES AND FIGURES

Table: 1 the organizational structure of mountain harvest.

Table: 2 shows the germination percentage of bean seeds.

Table: 3 Shows how to distinguish BBW from other common Banana pests/Diseases.

Figure: 1 shows the PH charts.

ABSTRACT

I compiled this study report during industrial training that began on Monday 28^{th/}02/2022 and ended on Friday 6th/05/2022. The training was for ten weeks and was carried out at mountain harvest SMC ltd in Mbale city in Uganda. The work was under the supervision of Mr. wasembula brian, the certification officer mountain harvest.

This was to fulfill the requirements needed for the award of a diploma in crop production and management Busitema University, putting much of the theoretical knowledge got in class in to Practice, acquire practical skills in farm management and get exposed to the working environment.

The student participated in several activities; soil testing, germination testing, control of maize stalk borers; using push pull technology, diseases diagnosis and control and coffee production (chapter two).

These activities were done out of proper time allocation and management as my supervisor was eager for me to learn much from the field. On the same note, challenges faced by the internee, relevant skills acquired, qualification acquired, responsibilities undertake and how the attachment is going to influence my future carrier .(chapter three).

In **chapter four** the study report presents the conclusion and recommendations, the appendices which contain tables, map of mountain harvest, the daily activity work plan, photographs showing the different activities carried out.

The recommendations suggested include, provision of improved seed varieties to farmers, provision of more extension services on post-harvest handling, fertilizer and chemical use to farmers by the Government.

The skills and experience I have acquired during the training have empowered me to become a potential Assistant Agricultural Officer.

I have been shaped to support, guide farmers and farming communities' crop production and management.



CHAPTER ONE

1.0 introduction

Industrial training is the practice carried out by students in universities and colleges to qualify for the award of masters, degrees, diplomas, and certificates.

The purpose of this training is to improve on the practical skills and knowledge for the students.

Under the course of a diploma in crop production and management, I carried out my industrial training at Mountain harvest SMC ltd Mbale city.

1.1 background of mountain harvest SMC ltd

Email: mountain harvest.com

Mountain Harvest SMC Ltd is company established by Ground Up Investing LLC, a Delaware limited liability company and a wholly owned subsidiary of Lutheran World Relief ("LWR") It was formed basically to Improve quality of life for smallholder coffee farmers by enabling

improved terms of trade to farm households, building social capital in their communities, and using

organic farming practices to enhance environmental conditions at the landscape level.

It also aimed at Empowering remote farming communities to transform their lives by elevating selected crops like coffee out of commodity markets and into premium, specialty markets through a relationship-based trade linking them to consumers who care about social and environmental impacts.

Mountain Harvest SMC washed Arabica Coffee project is located on the slopes of Mount Elgon in the Districts of Mbale, Bududa, Bulambuli, Sironko and Kapchorwa. The project has total membership of 572 registered farmers who are organized and working together in 31 farmer groups distributed in eight zones on the slopes of Mount Elgon.

Mountain Harvest SMC Ltd membership consists of 431 males and 141 female who have been trained and internally inspected by the field team of internal inspectors (Assistant field coordinators and field agronomists) and will be presented for external organic audit.

However, this year 2021, we due to time and the prevailing pandemic and farmer commitment, we have internally inspected 572 farmers whom we have submitted for external audit. Out of these, 110 are new farmers, 62 farmers from new groups of bududa bufuma cooperative and mabono all from Bududa District. The other 48 new farmers are from the already existing groups.

The Internal Control System (ICS) is a system that guides the organic and Quality integrity of the products generated by the registered, contracted and inspected farmers in the small holder group. It is a system in which all persons dealing with the product (farmers, buyers, storekeepers etc.) are

