





AN INDUSTRIAL TRAINING REPORT CARRIED OUT AT BUGINYANYA ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE FROM $28^{\rm TH}$ FEBRUARY TO $6^{\rm TH}$ MAY 2022

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OF A DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

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24

DECLARATION

I TOBOLA SABETH do declare that information in this report was obtained out of my own effort and knowledge, and I truly believe that this work has never been presented to any institute or University for any award.

NAME: TOBOLA SABETH SIGN TOS DATE 415/22

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DEDICATION

My Sincere dedication goes to the entire family of Mr. GAMUZEZI JOHN for the support and guidance they have given me since Lstarted my journey of education.

Finally I dedicate this work to Almighty God who enabled me to complete this training when I'm still health and sound.

ACKNOWLDGEMENT

I TOBOLA SABETH whole heartedly take this opportunity to acknowledge all the people who have managed to help me to earry out my Industrial training in terms of finance, materially, skills and knowledge. In a special manner I appreciate Dr. OWERE LAWRENCE the director of research Buginyanya zonal agricultural research and development institute for accepting me to do my industrial training in this place.

May the almighty God bless each and every one who helped me during this industrial training from the beginning up to the end!

Table of Contents

DECLARATION	ī
DEDICATION	ii
ACKNOWLDGEMENT	iii
LIST OF ABBREVIATIONS	vi
LIST OF TABLES AND FIGURES.	vii
ABSTRACT	viii
ABSTRACT CHAPTER ONE 1.0 INTRODUCTION	1
1.0 INTRODUCTION	i
1.1 LOCATION	1
1.2-HISTORICAL BACKGROUND	ť
1.3 OBJECTIVES OF (BCRS)	
1.4 VISSION OF BUGIZARDI	2
1.5 MISSION OF BUGIZARDI	2
1.6 GOAL OF BUGIZARDI	2
1.7 MADATE	
1.8 ENTERPRISES AT BUGIZARDI	2
1.9 ORGANOGRAM OF BUGIZARDI	3
ORGANOGRAM OF BUGIZARDI	4
CHAPTER TWO	5
2.0 Description of the attachment	5
2.1Familiarization phase	6
2.2 Mentoring	6
2.3 Workplace	6
2.4 Cooperation	



2.5. AQUACULTURE	7
2.5.1 Fish Farming	7
2.5.2 General management practices of a fish farm	8
2.6. ARABICA COFFEE PRODUCTION	9
2.6.2 Coffee Nursery bed	10
2.7. WHEAT PRODUCTION	16
2.8. BANANA PRODUCTION.	18
2.8.1 Importance of banana	18
2.8.2 Ecological requirements	18
2.8.4 Agronomic practices	19
2.9.APPLE PRODUCTION (Malus domestica Borkh)	
CHAPTER THREE	24
3.0. Impacts of the attachment	24
3.1 Skills gained during the industrial training	24
3.2 Responsibilities undertaken during the training	
3.3 Influence on my future career	
3.4 Correlation with classroom knowledge	
3.5 Challenges faced during the industrial training	
CHAPTER FOUR	26
4.0 Conclusions and recommendations	
4.1 Conclusions	
4.2 Recommendation.	26
APPENDICES	
Appendix 1: Showing the work plan followed during the Industrial Training	
Photos showing activities	
REFERENCE	

LIST OF ABBREVIATIONS

BCRS: Buginyanya Coffee Research Station

BUAC: Busitema University Arafai Campus

BugiZARDI: Buginyanya Zonal Agricultural Research and Development Institute

CBB: Coffee Berry Borer

CBD: Coffee Berry Disease

DAP: Diammonium Phosphate

GMO: Genetically Modified Organisms

IPM: Integrated Pest Management

KP: Kenya Poster

NARO: National Agricultural Research Organization

NARS: National Agricultural Research System

SL: Selected Laboratory

SSP: Single Super Phosphate

TSP: Tri-Super Phosphate

USEAEZ: Uganda South-Eastern Agro-Ecological Zone

VTC: Variety Trial Centres

LIST OF TABLES AND FIGURES

Table I : Showing the highland crops-based at BugiZARDI main station	5
Table 2 : Showing the varieties of Arabica coffee, their characteristics and spacing	9
Table 3: showing pest of coffee, symptoms and control.	14
Table 4 Table4 showing varieties of banana and their categories	19
Figure 1 shows the organization structure of BugiZARDI	4

0

ABSTRACT

This report contains and describes the activities carried out, skills and qualifications gained, challenges faced during the training, conclusion of the report and recommendations derived at BugiZARDI in Bulambuli district under NARO. The objective of this training is to help students gain skills and knowledge from the field and build confidence in them. This was followed by orientation where I was introduced to BUGIZARDI and later implemented activities like visiting the organization in preparation of the industrial training by meeting with the supervisors to guide on how to carry out the training and orientation, conducting training in various enterprises like, banana, field peas, and potatoes, among others. Above all, the industrial training was successfully done because I gained skills since our supervisors were friendly and willing to train us. In addition, during this training, I also faced some challenges that included unfavorable weather like heavy rains that disrupted the road network; this can be solved by combining efforts with the government to promote an adequate road network for better communication within the area and district at large.



CHAPTER ONE

1.0 INTRODUCTION

Industrial training is a module conducted outside the lecture room.it is effective because it gives the students an opportunity to participate in practical aspects that enable them to gain more skills and knowledge. This field work report was carried out Buginyanya Zonal Agricultural Research and Development Institute.

1.1 LOCATION

BugiZARDI is located in Masira Sub County in Bulambuli district in eastern Uganda at 2980 masl. Pursuant to the implementation of the NARO Act 2005, BugiZARDI was operationalized with effect from 1st July 2008. The institute is composed of BugiZARDI as the main station, Bulegeni and Ikulwe as satellite stations.

BugiZARDI deals in agricultural research and development in Uganda's South-Eastern Agro Ecological Zone (U'SEAEZ) it comprises of districts like; Bukwa, Bulambuli, Kapchorwa, Kween, Mbale, Kibuku, Busia, Bugiri, Iganga, Mayuge, Ikulwe, Manafwa, Sironko, Bududa, Luuka, Tororo, Pallisa, Namayingo, Jinja, Kamuli, Namutumba, Buyende, Budaka, Kamuli, and Kaliro districts.

1.2 HISTORICAL BACKGROUND

The institute was established in 1969 by the ministry of agriculture, cooperatives, and marketing as a coffee research station. It established as part of the coffee unit at Kawanda to centralize research on Arabica coffee the research division of the ministry of agriculture.

Before the establishment of Buginyanya Coffee Research Station BCRS), trials especially on entomology and pathology were being conducted at farmer's level and at the Variety Trial Centers (VTCs) which were distributed across the district included, Bulago, Buginyanya, Bukigai, Bududa, Chema, Cheminy, Bugusege, and Buwabwala. The system proved difficult and expensive for effective management for the government. It was decided to centralize research programs on Arabica coffee under the research division of the ministry of agriculture for close and proper supervision.

65