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**A REPORT OF INDUSTRIAL TRAINING CARRIED OUT AT  
BUGINYANYA ZONAL AGRICULTURAL AND DEVELOPMENT  
INSTITUTE, MASIRA SUB-COUNTY IN BULAMBULI DISTRICT.**

**FROM 28TH/MARCH TO 6TH/MAY/2022.**

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**TO BE SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND  
EXTENSION FOR THE PARTIAL FULFILLMENT OF AN AWARD OF  
DIPLOMA IN CROP PRODUCTION AND MANAGEMENT OF  
BUSITEMA UNIVERSITY ARAPAI CAMPUS.**

**MAY 2022**



**DECLARATION**

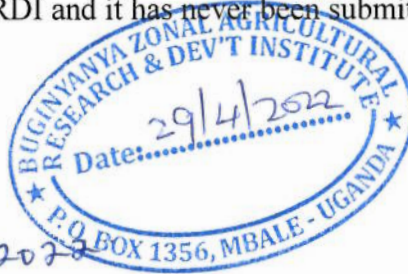
I ISABIRYE JOHN Declare that this report has been organized and done by me as a result of internship program I had at BugiZARDI and it has never been submitted to any other university or institution of higher education.

Approved by;

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Sign.....*PP. Jw*..... Date.....*29/4/2022*.....

(Field supervisor)



Name: WASIKE JOHN  
Sign.....*[Signature]*.....  
(Academic supervisor)

Date.....*17/07/22*.....

## DEDICATION

I dedicate this report to my parents Mr. Nduwo Gabriel and Mrs. Biryeri Rose who supported me not only in academics but also in all aspects of life. Secondly, I dedicate to all my field supervisors and the staff of BugiZARDI where I acquired a lot of practical skills and knowledge in the field of agriculture. Lastly I dedicate it to my fellow internees whom we worked with during the internships.



## ACKNOWLEDGEMENT

First and foremost I would like to thank to the almighty God who has protected me through the training period.

I owe my a debt of gratitude that cannot be measured to my parents who tirelessly laid my foundation and provided financial support during the training. Then I extend my gratitude to the Human resource of BugiZARDI for accepting me to do my It on their research.

My special thanks goes to all my field supervisors and casual labour who injected me with the knowledge and skills using their experiences.

I also wish to extend my sincere gratitude and appreciation not only to my academic supervisor for the knowledge rendered to me before training which boosted my education but also my fellow internees who gave me company in working as a group, this boosted my ability in gaining much knowledge.

Lastly, the great acknowledgment goes to my almighty God for the health given to me making me completing internship successfully.

## TABLE OF CONTENTS

Declaration.....	i
Dedication.....	ii
Acknowledge.....	iii
Table of contents.....	iv
List of tables and figures.....	vi
List of abbreviations.....	vii
Abstract.....	viii
1.0. CHAPTER ONE: INSTRUCTION.....	1
1.1. LOCATION.....	1
1.2. HISTORICAL BACKGROUND.....	1
1.3. OBJECTIVES OF BCRS.....	1
1.4. MISSION OF BUGZARDI.....	1
1.5. VISION OF BUGZARDI.....	1
1.6. GOAL.....	2
1.7. MANDATE.....	2
1.8. ENTERPRISES AT BUGIZARDI.....	2
1.9. ADRESS .....	3
1.10. OGANOGRAM OF BUGZARDI.....	4
2.0. CHAPTER TWO: DESCRIPTION OF ATTACHMENT.....	5
2.1. FAMILIARIZATION PHASE.....	5
2.2. COFFEE PRODUCTION.....	5
2.1.1. Ecological requirements for Arabica coffee.....	5
2.1.2. Varieties of Arabica coffee.....	6
2.1.3. Agronomic practices of Arabica coffee.....	6

<b>2.2.0. BANANA PRODUCTION.....</b>	<b>10</b>
2.2.1. Ecological requirements for banana.....	10
2.2.2. Varieties of banana.....	11
2.2.3. Agronomic practices.....	11
<b>2.3.0. FIELD PEAS .....</b>	<b>13</b>
2.3.1. Agronomic practices of field peas.....	13
<b>2.4.0. APPLE PRODUCTION.....</b>	<b>15</b>
2.4.1. Pests, diseases and varieties of apple.....	16
<b>2.5.0. METROLOGY.....</b>	<b>16</b>
2.5.1. Weather and climate.....	17
<b>2.6.0. PRODUCTION OF HASS AVOCADO.....</b>	<b>21</b>
2.6.1. Agronomic practices of Hass avocado.....	21
<b>2.7.0. FISH FARMING.....</b>	<b>22</b>
<b>3.0. CHAPTER THREE: IMPACT OF ATTACHMENT.....</b>	<b>24</b>
3.1. Skills and knowledge gained.....	24
3.2. Responsibility under taken.....	24
3.3. Influence of internship on my future career.....	24
2.4. Correlation of internship activities with the lecture room knowledge.....	24
<b>4.0. CHAPTER FOUR: CONCLUSIONS AND RECOMMENDATIONS.....</b>	<b>25</b>
4.1. Conclusions.....	25
4.2. Recommendations.....	25
<b>APPENDICES.....</b>	<b>26</b>
Appendix 1. Internship work plan.....	26
Appendix 2. Photos of internship activities.....	28
<b>REFERENCES.....</b>	<b>29</b>

## LIST OF TABLES AND FIGURES

Fig. 1 shows the structure of BUGIZARDI.....	4
TABLE 1 shows pests and diseases.....	9
Table 2 shows varieties of banana.....	11
Table 3 shows pests of banana.....	12
Table 4 shows diseases of banana .....	12
Table 5 shows diseases of field peas.....	13
Table 6 shows the work plan of internship activities.....	26
Fig. 2,3,4,5,6,7,8,and 9 shows photos of internship activities.....	28

## LIST OF ABBREVIATIONS

BugizARDI. BUGINYANYA ZONAL AGRICULTURAL AND DEVELOPMENT  
INSTITUTE

NARO. National Agriculture Research organization

USEAEL. Uganda south eastern Ago-ecological zone

CBD. Coffee berry disease.

CBB. Coffee berry borer

CLR. Coffee leaf rust

HR. Human resource

NPK. Nitrogen phosphorus potassium

ASL. Above sea level

mm. Millimeters

m. Meters

Eg. For example

ie. That's to say

BBW. Banana bacterial wilt

Mr. Mister

Mrs. Mistress

IT. Industrial training

cm. Centimeters.



## ABSTRACT

This report contains the orientation where I was first introduced to the Human resource and Director of research BugiZARDI. It also contains the introduction of industrial training (IT), background of the organization structure of BugZARDI. It also describe the activities carried out, skills and qualifications gained, challenges faced during the IT, conclusion of the report and recommendations derived from the challenges faced. I carried out the activities such as establishing a coffee nursery bed, sorting of field peas and wheat, manure application, weeding the nursery bed, pricking out and potting coffee seedlings, planting field peas, field marking, pruning de-sucking, harvesting bananas etc. Those activities made me gain alot of skills and knowledge such as skills in potting, banana harvesting, skills in field marking, skills in de-suckering, pricking out, grafting and knowledge on data collection in weather elements such as rainfall, speed of wind, wind direction and temperature. I also got some knowledge in data collection in coffee and bananas under experimental trials during my internship. The enterprises found at BugiZARDI are banana, coffee, wheat, livestock, aquaculture and potato.

However, some challenges were faced like lack of crops in the green house due to drought, limited access to internet and computers to carry out more research and heavy rainfall which could rain several times of the day also interrupted our field activities.

In conclusion all the activities were implemented successfully and I was able to gain practical skills and knowledge in relation with my career. However I recommend the government to provide all the necessary tools and equipment such as water pump, and structures like computer laboratory with good network.

## **1.0 CHAPTER ONE: INTRODUCTION**

Industrial training is module which is conducted outside lecture room or out of university. It is essential because it gives students a chance to participate fully in practical aspects which enhance their skills and knowledge. This field work was carried out at Buginyanya zonal Agricultural Research and Development Institute ( Bugi ZARDI) located in Masiira sub county Bulambuli district. Pursuant to implementation of the NARS Act 2005 BugiZARDI was operationalized w.e.f. 1<sup>st</sup> July 2008.

### **1.1 LOCATION.**

Buginyanya Zonal Agricultural Research and Development Institute (BugiZARDI) is located in Masira sub-county in Bulambuli District in Eastern Uganda at 2,980masl. Pursuant to the implementation of the NARS Act 2005, BugiZARDI was operationalized w.e.f. 1<sup>st</sup> July 2008. The Institute is composed of Buginyanya as the main station, Bulegeni and Ikulwe as satellite station. BugiZARDI spearheads Agricultural Research and Development work in Uganda's South Eastern Agro-ecological Zone (U'SEAES) that administratively comprises of Bukwo, Kween, Kapchorwa, Bulambuli, Sironko, Mbale, Bududa, Manafwa, Budaka, Kibuku, Palisa, Tororo, Busia, Namayigo, Butaleja, Iganga, Bugiri, Namutumba, Mayuge, Jinja, Kamuli, Buyende, Kaliro and Luuka Districts.

### **1.2 HISTORICAL BACK GROUND.**

The Institute was established in 1969 by the Ministry of Agriculture, Cooperatives and marketing as a Coffee Research Station known as Buginyanya Coffee Research Station (BCRS) It was established as part of the coffee unit at Kawanda to centralize research on Arabica coffee under the research division of the Ministry of Agriculture.

Before the establishment of Buginyanya station, trials especially Entomology and Pathology were being conducted at farmers' level and variety trials centers (VTCs) well distributed across the district. These were; Chema, Kyeminy, Kapchorwa, Busulani, Buginyanya, Bulaago, Bugusege, Bukigayi, Bududa and Buwabwala. The system proved difficult and expensive for effective management for government. It was decided to centralize research programs on Arabica coffee under the research division of the ministry of Agriculture for closer and efficient supervision.

### **1.3 OBJECTIVES OF BCRS.**

- To address the problems related to Arabica coffee production by farmers such as disease, insect pests and agronomic problems.
- To provide farmers with improved coffee seed through the District nurseries.
- To render advisory services to farmers through Demonstrations and visits.