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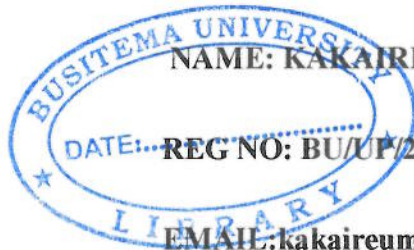
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**INDUSTRIAL TRAINING REPORT CARRIED OUT AT BUGINYANYA  
ZONAL AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE  
(BugiZARDI), ILUKWE SATELITE STATION IN MAYUGE DISTRICT**

**P.O.BOX 1356 MBALE**

**FROM 20<sup>th</sup> MAY TO 26<sup>th</sup> JULY 2019**

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**TO BE SUBMITTED TO THE OFFICE OF EXTENSION AND AGRIBUSINESS  
DEPARTMENT FOR PARTIAL FULFILLMENT FOR THE AWARD OF A DEGREE  
OF AGRIBUSINESS MANAGEMENT AT BUSITEMA UNIVERSITY ARAPAI  
CAMPUS**

**JULY 2019**

## DECLARATION

I kakaire umaru a student of Busitema University Arapai campus, hereby declare that all the findings presented in this report and all the attachments are correct to the best of my knowledge.

This is my own work compiled after research and field study done at Buginyanya Zonal Agricultural Research and Development Institute Ikulwe satellite station and it has not been submitted to any university for any award.

Signature..... *Culwa* ..... Date..... *25<sup>th</sup> / 07 / 2019* .....

### Field Supervisor

Name..... *MUGATI, PASCAL BUIRE* .....

Signature..... *[Signature]* .....

Date..... *25<sup>th</sup> / July / 2019* .....

Officer in charge..... *Dr. Kagoda Frank* .....

Name..... *[Signature]* .....

Signature..... .....

Date..... *25 / 7 / 2019* .....



### Academic Supervisor (University)

Name..... *Muyinda Robert* .....

Signature..... *Acason* .....

Date..... *30 / 8 / 2019* .....

## DEDICATION

I wish to dedicate this work to my sisters' mutesi saida and mutesi Sarah for the love, care and support they rendered to me up to the university level, may Allah bless them. Special dedication goes to my mother Nalongo Hadijah for the great support she has given me towards my education and all the staff of BugiZARDI and finally to the almighty Allah who enabled me to accomplish my field work without encountering any problem.



## ACKNOWLEDGEMENT

I thank Allah for the gifts of life and knowledge that he gave me while producing this report. My sincere thanks goes to the officer in charge of BugiZARDI Ikulwe satellite station Dr.Kagoda Frank for giving me the opportunity to conduct my industrial training in BugiZARDI. I thank my supervisor madam kwaka Lorna for her kind guidance and encouragement while I was in the field and I also thank my friends Luwalala Daniel, Kunya Emmanuel, Tatyia Emmanuel and Mpansyo Anthony whom we were together during the training for the great help they offered. Am also grateful to my dear mother for bringing me up and sacrificing her little resources she had for educating me. Special thanks also go to all my lecturers at BUAC and all the staff. May the almighty Allah reward them abundantly!

I also thank all the staff of Buginyanya ZARDI, Mr. Mugati Pascal Bwire, Mr. Emmanuel Basena and Mr.Elesu Moses Mr. Wailogo Isabyire Madam Mukimba Lydia and Madam Kwaka Lorna, the farm manager for enabling me to acquire all what I needed for my research without any difficulty

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## LIST OF ABBREVIATION

Buginyanya ZARDI -	Buginyanya Zonal Agricultural and Development Institute
Mr. -	Mister.
Ms -	Miss.
BUCA -	Busitema University Arapai Campus
i.e. -	That is to say
cm -	Centimeters
USEAEZ -	Uganda's South Eastern Agro-ecological Zone
VTCs -	Variety Trials Centers
BCRS -	Buginyanya Coffee Research Station
UCDA -	Uganda Coffee Development Authority
DAP -	Di-ammonium phosphate
SSP -	Single Supper Phosphate
CBB -	Coffee Berry Borers
NARS -	National Agricultural Research Station
Dr -	Doctor
Kg -	Kilogram
Ha -	Hectare
Mm -	Millimeters
w.e.f -	With Effect From



## LIST OF TABLES AND FIGURES

Table 1: Showing the diseases of cassava, symptoms and their control measures

Table 2: showing the diseases of coffee, symptoms and their control measures.

Table 3: showing the different clones suited to different sites in Uganda.

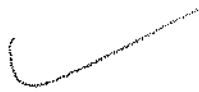
Table 4: showing the diseases which affect Eucalyptus trees symptoms and their control measures.

Fig1: showing trainee in Breeding of maize (tassel bagging)

Fig.2: showing trainee while doing lab work (determine of moisture content of rice)

Fig 3 showing trainee cutting coffee stems for cloning

Fig 4 showing trainee in data collection on rice



## ABSTRACT

It is mandatory for students at Busitema University to carry out industrial training after two semesters of study.

Industrial training is a module carried out to help students be exposed to practical skills which involves visiting Agricultural institutes both public and private organizations such as research stations, sugar estates, District agricultural offices and animal farms. The objective of the study was to boost theoretical skills and knowledge learnt in class with hands on practical skills and applied knowledge. It always takes a period of two months.

The study was carried out under the following activities;

- Visiting the organization to seek acceptance.
- Preparation of the industrial training by meeting with the supervisors to give us details on how we shall carry out the training and orientation.
- Conducting the training in various enterprises.

The key objective of this training is to enable us apply the theory learnt at school and put it in practice, get more knowledge in the field so as to know how to work with the community, to know challenges faced outside.

The major enterprises we dealt with were;

- Maize, Bananas, Cassava, Rice, Sustainable land management(SLM), Coffee, Sweet potatoes, Beans,, Pasture, Eucalyptus production, Agro forestry, Report writing and conducting experiments.

The industrial training was successfully done; the supervisors were good and were open to give us all the skills we needed. Though as an organization it has challenges but it is prospering.

The major challenge was water shortage but this can be solved by the community and the organization to put efforts together and dig and construct more bore holes and also encourage the national water and sewerage corporation to improve on its service delivery.

## **CHAPTER ONE**

### **1.0 Introduction.**

I carried out my industrial training at Buginyanya Zonal Agricultural Research and Development Institute (BugiZARDI) Ikulwe satellite station. The training was done successfully in that I gained practical skills and knowledge on other aspects.

#### **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 operationalised 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, Pallisa, 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.**