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A REPORT OF INDUSTRIAL TRAINING CARRIED-OUT AT MAKERERE UNIVERSITY AGRICULTURAL RESEARCH INSTITUTE KABANYOLO (MUARIK)

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FROM 20TH MAY TO 26TH JULY 2019

COMPILED BY:

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SIGN.....

COURSE CODE: DCP 1208

COURSE MODULE: INDUSTRIAL TRAINING

COURSE: DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

REPORT SUBMITTED TO THE FACULTY OF AGRICULTURE AND ANIMAL SCIENCES FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE

DIPLOMA IN CROP PRODUCTION AND MANAGEMENT OF BUSITEMA UNIVERSITY

AUGUST 2019

DECLARATION

I **Adikin Bridget**do here declare to the best of my knowledge and with utmost sincerity that the work published in this book is original. Other work has been dully acknowledged; this work has never been submitted for academic award in any other institution of learning.

Sign.....

Date:19th/JULY/2019.....

FARM MANAGER OF MAKERERE UNIVERSITY AGRICULTURAL RESEARCH INSTITUTE KABANYOLO

NAME.....Mwesigwa C

SIGNATURE..... DATE.....20/7/2019

ACADEMIC SUPERVISOR

NAME.....

SIGNATURE..... DATE.....

DEDICATION

This project bears a fourfold dedication.

First, to my darling parents who gave me a life of love, secondly to all my brothers, sisters, niece, nephew for the love of life you gave me, third to my crop friends who gave me a life of love and fourth to the world around me to which I have brought a love of empowerments.

Parents you are so dear to me. Your all round investment in me gives me no choice but to be in debted to you for life. Relax because this is just one brain child from your child. Throughit, I hope to pay my first debt instalment at least in kind. To my brothers, sisters, niece, and nephew for the financial support, guidance, knowledge and encouragement you rendered to me during the study and forgetting Mr.Tweyambe Chrysostom the farm manager of MUARIK may the almighty God bless all the work of your hand.

To my friends that have given me a life of love. Your line is as long as the Nile River, but allow me to salute Warom Claudius who is still leading it, remember in our journey toward success, we are all bound to fall, but we gather the energy and rise again when everyone is looking on but not forgetting the following Nalukwata Bridget, Okello Charles.

May the good Lord reward them abundantly.

ACKNOWLEDGEMENTS

The demands for academic work are all too over whelming. Thus, the accomplishment of this study would not have been a success with exclusion of support and contribution of others, therefore.

With respect and humbly honour to thank God for allowing me to complete my training when am healthy, happy and alive.

I extend my sincere thanks to the academic staff of BUSITEMA UNIVERSITY who sent me for this field attachment to acquire hands on experience to enhance my academic excellence. I sincerely thank the management of Makerere University Agricultural Research Institute Kabanyolo (MUARIK) for accepting me to do my training on their farm, Mr. TWEYAMBE CHRYSOSTOM the training coordinator, Mr.Taremwa precious the head of livestock and all the section workers who tirelessly worked with me during the whole period and gave their attention to me to learn more about the Dairy enterprise, Crop section and all other fields as reported in this farm.

MAY THE ALMIGHTY GOD BLESS YOU ABUNDANTLY

TABLE OF CONTENTS

LIST OF ABBREVIATION

ARDC.....Agricultural Research and Development Centre

DSIP.....Development strategy and investment plan

IMO.....Integrated pest management.

NAADS.....National Agricultural Advisory Services

NAGRIC and DB.....National Animal Genetics Research Centre

NARO.....National Agricultural Research Organization

NDP.....National development plan

OPM.....Office of the prime minister

OWC.....Operation wealth creation

PMA.....Plan for modernization of agriculture

MUARIK.....Makerere University Agricultural Research Institute Kabanyolo

N.D..... Newcastle Disease

FMD..... Foot and Mouth Disease

ECF..... East Coast Fever

LIST OF FIGURES

LIST OF TABLES

ABSTRACT

Industrial training (IT) programme started on 20th /05/2019 and ended 26th07.2019 which has been a busy period for me at Makerere University Agricultural institute Kabanyolo (MUARIK) for the purpose of the industrial training.

During the period, I carried the following activities; orientation, soy bean, aquaculture as a lecture, apiary as a lecture, soil lecture dairy management practices. We also carried out activities like deworming pigs, maize harvesting, vaccinating layer birds, banana, piggery unit, feed milling lecture, compost vermi-culture, goats and coffee management.

Chapter one presents introduction information, historical background, how the farm started, mission and vision statements of the farm, and the organization structure of the farm

Chapter two presents description of the attachment as to the activities carried out during the attachment.

Chapter three presents' impacts of the attachment as to the skills and qualifying I have under taken during the attachment period, the attachment influence towards my future career plans and the attachment activities in correlation with my classroom knowledge.

Chapter four presents a summary of conclusions and Recommendations.

Appendices of the attachment showing the work plan, Map of MUARIK, Photo and references.

CHAPTER ONE

INTRODUCTION

1.0 Background

Makerere University Agricultural Research Institute Kabanyolo (MUARIK) is located north of Kampala at Gayaza, Zirebwe Road. It's found in Kabanyolo village, Nanyabo sub county, Wakiso District. Approximately 19Km away from Kampala Town. This Research Institute was started in 1953 during the colonial rule, and since that time it has undergone through reforms or changes. At the beginning, the centre was known as **University College**, but in early 1970s after independence, the name was changed from University College to **University Farm Kabanyolo** under the Government of General **IDDI AMIN DADA** who was the president during that particular period of time.

Consequently in 1996, the institution attained the present name/identity known as **Makerere University Agricultural Research Institute Kabanyolo (MUARIK)** and it is under the Ministry of Education and Sports.

The Institution covers the total land area of650 Acres and this land have been partitioned into three ridges as they are **Kabanyolo Ridge, kyetume Ridge and Naryamagonja Ridge.**

At MUARIK, mixed farming is being practiced as there are animals being reared and crops growing, and both enterprises have got different sections such as Calf rearing and management, Animal Health, Milk storage/preservation, Piggery, Poultry, Rabbitary, Cattle and Goats units, Apiary section and Fish farming as for Animal Enterprise.

For crop enterprise, perennial crops like Banana and Coffee plantations have been established as the Banana plantation cover 4.4 acres while coffee plantation covers over 5 acres of land. Also, Annual crops such as maize and Soya beans are grown purposely for formulating animal feeds, but they also aid in maintaining soil aeration by adding nitrogen as their roots possess root nodules which have got nitrogen fixing bacteria in them.

Furthermore, Horticultural crops such as Tomatoes and green pepper are also grown under Green House. Practices like Grafting, Layering and Budding which are used in improving plants fruit yields are also being done. There is also pasture bank where animals' feeds are formulated and preserved before storage for example Hay and Silage. Tree/Ago- forestry project and Wood Lots particularly for Eucalyptus and pine trees are also in existence at the University Research Institute Also, sweet crops like sugar cane, passion fruits and also managed