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FIELD ATTACHMENT REPORT CONDUCTED AT NATIONAL CROP RESEARCH RESOURCE INSTITUTE NAMULONGE (NACRRI)

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DECLARATION

I OKOTH DAVIS hereby declare that this internship report is my original work and has been compiled by me using materials and knowledge I acquired both in the lecture sessions and during time of field practices. It has never been submitted to any other institution of higher level of learning for any award of any academic qualification.

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APPROVAL

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DEDICATION

I dedicate this great piece of work to my beloved parents Mr. Ochieng John Martin& Mrs. Nachwo Florence, my brothers and sisters, relatives and friends. May the goodLord have mercy on them and reward them abundantly for their support in my studies, but great thanks to my beloved father for all the financial support towards my studies and may the good Lord bless the works of his hands. I also dedicate it to the management of NaCRRI-Namulonge, more especially the field supervisors who devoted their time whole heartedly to essentially offer me all the necessary guidance and assistance throughout the period of attachment.

I pray to God to bless them and grant them more knowledge.



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First and foremost I wish to express my gratitude to the Almighty God for keeping me alive and out of trouble for the whole of my internship period within the stipulated time.

I extend intensively personal sacrifice and greater self-discipline in order to work diligently over the entire industrial training period to collect data and refine it into a report.

Let me take this opportunity to appreciate the academic staff of Busitema University Arapai campus and I am deeply indebted to my mind academic supervisor Mrs. Gumisiriza Costa

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LIST OF ABBREVIATIONS

NaCRRI : National Crops Resources Research Institute.

NARO : National Agriculture Research Organization.

ZARDs : Zonal Agriculture Research Development Institutes.

GMOs : Genetically Modified Organisms.

IPM: Integrated Pest Management.

ATF : Applied Tropical Floriculture.

NARS : National Agriculture Research Systems.

JICA : Japan International Cooperation Agency.

IITA : International Institute of Tropical Agriculture.

ARTP : Agriculture Research and Training Project.

NPK : Nitrogen Phosphorous Potassium.

SPVD : Sweet Potato Virus Disease.

CBB: Common Bean Blight.

BCMV : Bean Common Mosaic Virus.

Nam : Namulonge

Mak : Makerere

BUAC : Busitema University Arapai Campus.

DCP : Diploma in Crop Production and Management.

NE : North East

MAAIF Ministry of Agriculture, Animal Industry and Fisheries.

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ABSTRACT

This industrial training report contains four chapters and clearly describes the details of activities both practical and lectures that we performed at NaCRRI and these include; ROOT CROP, CEREALS, HORTICULTURE& OIL PALM, AND LEGUME program as presented below;

Chapter one;

This chapter describes NaCRRI, the historical background, vision, mission and purpose, objectives of the training, the location map and the organization structure of NaCRRI.

Chapter two;

This chapter describes the set of activities that we carried out in the four programs at NaCRRI for example root crops (cassava, sweet potatoes), legumes (beans and soya beans), horticulture (solanecious vegetables and fruits) and cereals (maize and rice), of which under each section, various activities were done such as pathology, entomology, agronomy, data collection and breeding.

Chapter three;

This chapter summarizes the impacts of the attachment i.e. skills gained, responsibilities undertaken, influence of the attachment to my future career plans, correlation of the attachment activities with class room knowledge and the various challenges faced during the period of the attachment.

Chapter four;

This chapter contains the recommendations to NaCRRI and BUAC and conclusions, appendices, work plan and references.

CHAPTER ONE



1.0 introduction

NaCRRI-Namulonge is one of the public agricultural institutes under the policy guidance of NARO

The director of the institute is Dr. Godfrey Asea (PHD) plant breeding and the administrator is Luzira Francis.

1.1Location of the Institution (NaCRRI)

NaCRRI is one of the sixNARIs under the policy guidance and co-operation of the National Agriculture Research Organization (NARO). It is located at bimodal rainfall region at latitude 0032° NE. it is located north of Kyadondo constituency, Wakiso district and 27km north of Kampala city, central Uganda.

The place has a tropical wet and dry mild climate with slightly humid conditions with an average of 65%. The area has savanna vegetation with tall trees and the most dominant type of grass called Pannicum maximum (guinea grass). The institute has 1188 hectares of land, of which 187 hectares are found at Sendusu where it hosts another organization IITA.

1.2Historical background of NaCRRI

The NaCRRI formerly known as Namulonge Agricultural and Animal Production Institute is one of the research institutes under the policy guidance of NARO which was established in 1949by the empire cotton growing cooperation of Britain.

It was established to sole investigate problems related to cotton production with the countries of the British Empire.

It served Sudan, Kenya, Tanzania, Zambia, Malawi, Nigeria, Uganda, and Yemen among others.

Uganda was chosen to be the regional center because it was centrally placed with exception of India, and was the largest producer of cotton in Common Wealth.

The Cotton Research Cooperation handed the institution to the Uganda government in 1972 and the institute continued as a cotton research station until 1980s when the research on other community crops and animal production was introduced. The crops that were introduced included; maize, cassava, sweet potato, soya beans, sunflower, ground nuts, simsim and wheat among others. Fruits were also introduced such as mangoes, oranges and lemons.