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AN INDUSTRIAL TRAINING REPORT FOR ACTIVITIES CARRIED OUT AT THE NATIONAL SEMI- ARID RESOURCES RESEARCH INSTITUTE (NaSARRI) IN SERERE DISTRICT FROM 28TH.FEBRUARY-22TH. APRIL 2022

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~~TO BE SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION OF BUSITEMA UNIVERSITY ARAPAI CAMPUS FACULTY OF AGRICULTURE AND ANIMAL SCIENCES IN PARTIAL FULFILMENT OF THE AWARD OF DIPLOMA IN CROP PRODUCTION AND MANAGEMENT~~



M Ag, 2022

NAE BV

APPROVAL

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DEDICATION

I dedicate this report to my family members most especially my lovely parents ORIKOI MICHEAL, AMODING MAGRET for the support they labored for me during hard times in raising my tuition, also to the working staff of NaSARRI and my fellow friends that I did my internship with that hello to all brothers and sisters for supporting me with all your graceful hearts not forgetting the working staff of Busitema university Arapai campus in there different capacities

A red checkmark symbol.A red circle containing a checkmark symbol.

ACKNOWLEDGEMENT

Thanks to the administration of Busitema University Arapai campus for the training, advice and guidance during the course of study. Most gratitude goes to the leaders of Busitema university Arapai campus for the guidance that they levied to me. My sincere thanks also goes to the staff and the management of NaSARRI especially to the director, human resource for having allowed me to conduct my internship in NaSARRI and my supervisor **MR: OCHAN JAMES ROLAND** for his exhausting support during my internship and all those who are not mentioned that may the Almighty God bless you abundantly.



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ABSTRACT

This industrial training report comprises of the cover page, preliminary pages, four chapters, appendices and references. Chapter one gives the introduction to NaSARRI, objectives of NaSARRI, NaSARRI research Programmes, vision, mission, mandate, Collaborations and the Organisational structure of NaSARRI. Chapter two contains the body of the report which includes the various activities carried out during the training in different research Programmes of NaSARRI eg in Cotton research programme which include introduction to Cotton and Cotton agronomy, selfing and crossing and pest identification, oil crops research programme activities include introduction to groundnuts, Agronomy, breeding in groundnuts, sunflower uses, types, Agronomy, pests and diseases of sunflower. Varieties of tomatoes, Agronomy, pests and diseases of tomatoes, it also contains information on pasture divisions, Agronomy, procedures of hay and silage making, mashroom production requirements, types of mashroom, benefits, including pests and diseases of mashroom, and the varieties of Sorghum, facilities in Cereals and their uses, and the pests and diseases of Sorghum. Chapter three contains the impact of the field attachment, responsibilities I under took during the training, how the industrial training will influence my future career and the correlation of the industrial training activities with the lecture room knowledge. Chapter four gives the conclusion and the recommendations of the findings in the report. It also has appendices which contain the work plan, photos and the map of NaSARRI, followed by the References.

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CHAPTER ONE

1.0 Location and Description of NaSARRI:

The National Semi-Arid Research Institute is one of the 16 public Agricultural institutes (PARIs) Under the National Agricultural Research Organisation located in the Eastern Agro-ecological zone in Serere District 27km south of Soroti town.

Agricultural Research in NaSARRI started in 1920 by the colonial government .It was initially called Serere Agricultural Research and Animal production Research Institute after which it was changed to NaSARRI. The institute has made considerable progress since its creation .Anew strategy has been developed that is the Medium Term Plan (MTP) through a highly participatory country Plan for Modernisation of Agriculture (PMA)

NaSARRI is one of the Agricultural Research institutes which is publically founded to carry out demand driven research and promoting agricultural Research

1.1 Objectives of NaSARRI:

To generate, package and disseminate appropriate agricultural production technologies to improve sustainable development

NaSARRI conducts research on mandated crops like cereals i.e. finger millet, pearl millet, sorghum, rice e.t.c, oil crops e.g. groundnuts, sun flower , SimSim and legumes like green gram, pigeon peas and cow peas

1.2 Mission of NaSARRI:

To generate package and disseminate appropriate Agricultural production of agricultural technology and information for improved sustained integrated crops and natural resource management and partnership with other stakeholders.

1.3 Vision of NaSARRI:

A market leader in generation and dissemination of appropriate technologies for sustainable development.