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BUSITEMA UNIVERSITY-ARAPAI CAMPUS
FACULTY OF AGRICULTURE AND ANIMAL SCIENCES

A REPORT ON THE INDUSTRIAL TRAINING CONDUCTED AT NATIONAL
LIVESTOCK RESOURCES RESEARCH INSTITUTE-NAKYESASA (NaLiRRI)

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Location: National Livestock Resources Research Institute (NaLiRRI) is located at Nakyesasa, 2 kilometres off Gayaza-Ziobwe road, Wakiso district in Uganda.

**A REPORT SUBMITTED TO THE FACULTY OF AGRICULTURE AND ANIMAL
SCIENCES IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF A BACHELORS DEGREE OF ANIMAL PRODUCTION AND
MANAGEMENT OF BUSITEMA UNIVERSITY**

6th MAY 2022



DECLARATION

I NAKIVUMBI SUMAYIA, hereby declare that this report is my original compilation and that none of the its sections has been reproduced, copied and submitted to any institution.

Signed *Suma*

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Signature *[Signature]* *18/05/2022*

DEDICATION

I would love to dedicate this report to my parents Ms. Namagembe Aisha and Mr. Wamala Ssaka and my fellow students I was with at the farm for the support they rendered to me to ensure that this activity was a success



ACKNOWLEDGEMENT

I would love to acknowledge the contribution accorded by the following people during this period of training.;

- The program Manager Dairy research, Dr Mwesigwa Moses (Phd)
- The manager Dairy section, Mr. Bukenya Charles
- And all field assistants

Your infinite assistance, guidance, generosity and tolerance during the training will not be forgotten.

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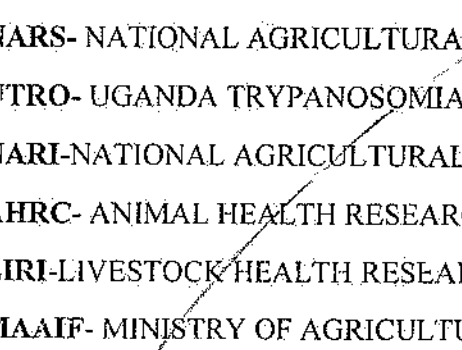
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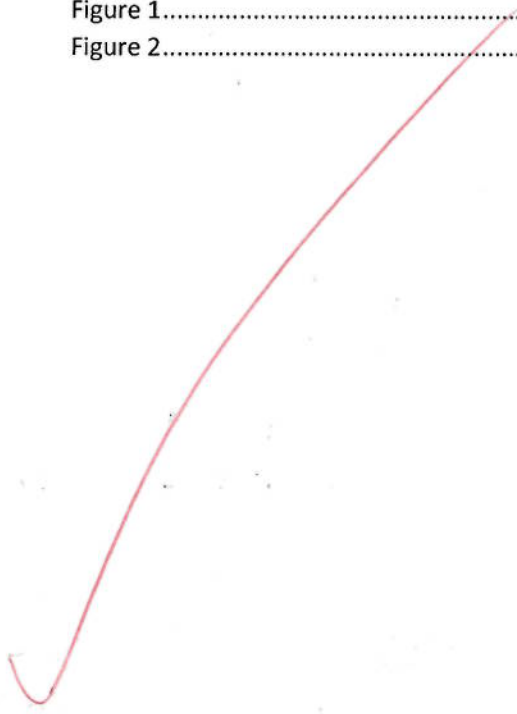
LIST OF ABBREVIATIONS

NaLiRRI-NATIONAL LIVESTOCK RESOURCE RESEARCH INSTITUTE
FAAS-FACULTY OF AGRICULTURE AND ANIMAL SCIENCES
DAP-DIPLOMA IN ANIMAL PRODUCTION AND MANAGEMENT
APM-BACHELOR OF ANIMAL PRODUCTION AND MANAGEMENT
CGA-CERTIFICATE IN GENERAL AGRICULTURE
PD-PREGNANCY DIAGNOSIS
I.T -INDUSTRIAL TRAINING
EATRO-EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION
EAC-EAST AFRICAN COMMUNITY
NARS- NATIONAL AGRICULTURAL RESEACH SYSTEM
UTRO- UGANDA TRYPANOSOMIASIS ORGANISATION
NARI-NATIONAL AGRICULTURAL RESEARCH INSTITUTE
AHRC- ANIMAL HEALTH RESEARCH CENTER
LIRI-LIVESTOCK HEALTH RESEARCH INSTITUTE
MAAIF- MINISTRY OF AGRICULTURE, ANIMAL INDUSTRY AND FISHERIES.



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ABSTRACT

The main aim of the training is to provide practical skills, field practice and experience that enables to enhance theoretical knowledge learnt in class.

This report contains the list of different activities which have been carried out during the industrial training period which have enabled me gain more practical knowledge out of class.

Furthermore, this report contains some recommendations which I feel if they are put into action there will be some better changes at the above-mentioned research station.

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CHAPTER ONE

1.1 INTRODUCTION

National Livestock Resources Research Institute is a government owned farm under National Agricultural Research Organization (NARO) in the ministry of Agriculture, Animal Industry and Fisheries. (MAAIF). This farm majorly operates in Animal research specializing on six enterprises namely;

- I. Spear head livestock research and development in the country.
- II. Vaccinology research Program with focus on Swine fever, FMD and Anti tick vaccine development.
- III. Improve pastures using technology
- IV. Dairy improvement through research health and fertility management
- V. Zero waste management.

1.2 BACKGROUND

The establishment of NaLiRRI dates back from the colonial era when the East African Trypanosomiasis Research Organization (EATRO) was founded in 1956 with the mandate to conduct research on Tsetse flies and Trypanosomiasis in both human and livestock across Uganda, Kenya and Tanzania under the jurisdiction of East African Community (EAC). Post-independence, EATRO was handed over to the government of Uganda in 1977 following the collapse of EAC and renamed Uganda Trypanosomiasis Research Organization (UTRO), its mandate was to conduct Research on tsetse flies on humans and Trypanosomiasis on Livestock in Uganda. In 1992, UTRO was merged with the Animal Health Research Center (AHRC) in Entebbe to form the Livestock Health Research Institute (LIRI) to handle livestock health and theriogenology including sleeping sickness in man. Following enactment of National Agricultural Research Act 2005, the National Agricultural Research System (NARS) for Uganda was established that comprises semi-autonomous National Agricultural Research Institute (NARI) under the policy guidance of National Agricultural Research Organization (NARO). NaLiRRI is one of the 16 semi-autonomous national or public agricultural research institutes.

National Livestock Resources Research Institute (NaLiRRI) located at Nakyesasa, 2 kilometres off Gayaza-Ziobwe road, Wakiso district in Uganda. The institute lies at an altitude of 900-1340 meters above sea level. The climate of the area is warm and wet with relatively high humidity. The area has a bimodal rainfall pattern and receives average annual rainfall of 1320 mm and the minimum temperature of the area is 11.0°C and the maximum is 33.3°C.

It was established in 2005, and it impacts 200 undergraduate students and 120 post graduate students annually.