

COMPILED BY	:	OKEMA MARTIN
REG NO	:	BU/UP/2020/2582
COURSE CODE	:	DCP 1208
CONTACT	:	0758375849/0781724356
EMAIL	:	martineokema@gmail.com
PROGRAME	:	DIPLOMA IN CROP PRODUCTION AND
		MANAGEMENT (DCP)
ACADEMIC YEAR	:	2020/2021.

A REPORT SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION OF BUSITEMA UNIVERSITY ARAPAI CAMPUS IN PARTIAL FULFILLMENT FOR THE AWARD OF A DIPLOMA IN CROP PRODUCTION AND MANAGEMENT.



DECLARATION

I OKEMA MARTIN, declare that the above information in this report was out of my devoted work but not from somebody else and has not yet been awarded an academic credit from any university or institution.

Signature:	Date: 13 105/2022
Name AJERTILA / BRIJ Name Males Jenes	ignature Date 13/5/2022 ignature Date 13/5/2022 ignature Date 24/5/2022 ignature Date 12/5/2022
INSTITUTE SUPERVISOR	ignature Bo Date 13/0572022
1	BUSITEMA UNIVERSITY LIBRARY CLASS NO.1 FATA 2.19.7

DEDICATION

This report is dedicated to my beloved mother ARIONGET KETTY and my sister ANYAYO JENIPHER for their total commitment and financial support as far as my education is concerned.

May the Almighty God bless and reward them abundantly for bringing me up in this challenging world.

ACKNOWLEDGEMENT

In the first place, I thank the Almighty God for having given me a tremendous and successful opportunity towards my training with Kakira Sugar Limited.

I thank the entire management of Kakira Sugar Limited who enabled me carry out my field attachment with the company.

I also thank the head of the agriculture department, heads of sections and the supervisors for their guidance rendered towards me during my field attachment.

TABLE OF CONTENTS

DEDICATION
ACKNOWLEDGEMENT
LIST OF ABBREVIATIONS
LIST OF TABLES AND FIGURES
ABSTRACT
1.0 CHAPTER ONE
1.1 Introduction
1.2 Background of Kakira Sugar Limited1
1.3 Location of Kakira Sugar Limited
1.4 Vision of Kakira Sugar Limited
1.5 Mission of KSL
1.6 Objectives of KSL
1.7 Definition of field attachment
1.8 Background of the field attachment program
1.9 Objectives of field attachment
2.9 CHAPTER TWO
2.1 Description of the attachment
2.2 NUCLEUS ESTATE
2.2.1 Sugarcane growing
2.2.2 Identification of implements
2.2.3 Land preparation
2.2.4 Cane planting
2.2.5 Weed control
2,2.6 Fertilizer application
2.2.7 Irrigation of the sugarcane
2.2.8 Harvesting of sugarcane
2.2.9 DAIRY UNIT
2.3.0 Milking
2.3.1 Ration mixing of livestock feeds
2.3.2 Bucket Feeding.
2.3.3 Hand spraying against ecto-parasites
2.3.4 Cleanliness of the dairy unit and hygiene
2.3.5 AGRONOMY
2.3.6 Tiller counting

2.3.7 Growth rate measurement
2.3.8 Fertilizer application
2.3.9 Sugarcane harvesting and Cane weighment
2.4.0 Commercial cane planting12
2.4.1 Meteorology activities
2.4.2 HORTICULTURE
2.4.3 Tools, equipment and chemical identification
2.4.4 Nursery bed preparation14
2.4.5 Vegetable growing and management
2.4.6 Pest and disease management
2.4.7 Compost manure making
2.4.8 Lawn and hedge establishment and management
3.0 CHAPTER THREE: IMPACT OF ATTACHMENT
3.1 Social conditions
3.2 Skills and Qualifications gained
3.3 Challenges faced during the field attachment
3.4 Responsibilities conducted during the training
3.5 Influence of the attachment on my future career plans
3.6 Correlation of attachment activities with classroom knowledge
4.0 CHAPTER FOUR: CONCLUSION AND RECOMMENDATION
4.1 Conclusions
4.2 Recommendations
APPENDICES

· .

LIST OF ABBREVIATIONS

CTM -	CHIEF TRAINING MANAGEF	2

IT - INDUSTRIAL TRAINING

- KSL KAKIRA SUGAR LIMITED
- TTO TECHNICAL TRAINING OFFICER
- e.g FOR EXAMPLE
- BUAC BUSITEMA UNIVERSITY ARAPAI CAMPUS
- REG NO REGISTRATION NUMBER
- DCP DIPLOMA IN CROP PRODUCTION
- DAP DIAMMONIUM PHOSPHATE
- TSP TRI-SUPER PHOSPHATE
- MOP MURIATE OF POTASH

LIST OF TABLES AND FIGURES

Table 1: Showing implements used within KSL estates	4
Table 2: Shows herbicide rate of application in KSL estates	5
Table 3: Shows rations used in feed formulation in dairy unit.	7
Table 4: An example of a table showing harvest data and juice analysis results for an experiment on	
varietal trial in shallow soils, a case of block 003 in Kabiaza division	11
Table 5: Shows the various weather parameters recorded and the instruments used	. 12
Table 6: Showing classification of vegetables according to the part eaten	16
Table 7: Showing classification of vegetables according to their family	,16

ABSTRACT

During my field attachment at Kakira Sugar Limited, I successfully carried out a number of activities in four different sections from 28th February to 29th April 2022.

Under nucleus estate, activities such as; - identifying implements, land preparation, planting, weed management, fertilizer application, irrigation and cane harvesting were successfully done.

Dairy unit is located at Kabiaza hill and purely deals in fresh and clean milk production. I actively participated in; - machine milking, feed mixing, bucket feeding of calves, hand spraying against ecto-parasites, general cleaning of animal sheds and drainage systems in the farm.

Agronomy is a research station dealing with cane variety evaluation, tiller counting, growth rate measurement, juice analysis in the laboratory, fertilizer application, cane planting, cane harvesting, cane weighment and weather forecasting.

Horticulture deals with vegetable and ornamental plant growing, nursery bed preparation, compost making, pest and disease control then finally lawn and hedge management.

However, I was in position to gain practical skills and knowledge in line with my career and relating with field workers at Kakira Sugar Limited.

In a nutshell, I also encountered a few challenges like placement delays but I recommend KSL to officially reopen the trainee activities so that students from higher institutions can be absorbed and availed with opportunities to conduct their training from within the KSL estates thus catering for their practical needs.

1.0 CHAPTER ONE

1.1 Introduction

Kakira Sugar Limited is Uganda's leading producer of white sugar. It was founded by late Prabhudas Madhvani in 1920s as a private family business. It is the flag bearer of the Madhvani Group of companies.

1.2 Background of Kakira Sugar Limited

Madhvani Sugar Estate (now Kakira Sugar Limited) was first established in 1920 with the capacity of crushing 150 tons of cane per day. It was wholly and privately owned by late Muljibhai Madhvani Prabhudas who lived from 1899 to 1958. In 1972, the owner left the country due to political upheavals and the assets of Kakira Sugar Limited were expropriated by the Uganda government and eventually run down.

However, under a new government in 1985, a joint venture agreement vested the assets into Kakira Sugar Works (1985) Ltd.

The new company now set out to establish a new plant and rehabilitate the sugarcane plantation and other infrastructures at massive cost of over 60 million US Dollars borrowed from the World Bank, African Development Bank and Uganda Development Bank.

Currently KSL is 100% owned by African Holdings Limited and has expanded in phases to the present capacity which includes a 52MW cogeneration plant feeding 36MW to national grid.

KSL comprises of agricultural land o about 10,000 hectares, a sugarcane plant that processes over 179,172 tons of sugarcane during the 2014 to 2015 crop season; and a 52MW power generation plant that supplies 36MW of its surplus power to the national main grid. In addition to sugarcane produced from its estate, KSL also buys sugarcane from about 8,000 out growers from their 25,000 hectares of cane. This makes KSL the largest sugar producer in Uganda. About 68% of sugarcane milled in the 2014 to 2015 season was purchased from the out-grower farmers. KSL is socially responsible employer of over 7,500 people or employees.

1