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**FACULTY OF AGRICULTURE AND ANIMAL SCIENCES**

**A FARM AND COMMUNITY ATTACHMENT REPORT CARRIED OUT AT JABBA  
ENGINEERING LIMITED, JABBA SOIL LABORATORIES**

3.5

**COMPILED BY;**

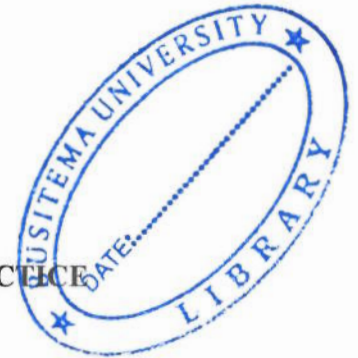
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**COURSE CODE; BSA2209 FARM AND COMMUNITY PRACTICE**

**BSA4**

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A FARM AND COMMUNITY PRACTICE REPORT SUBMITTED TO THE DEPARTMENT  
OF AGRIBUSINESS AND EXTENSION IN PARTIAL FULFILLMENT FOR THE AWARD  
OF THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE OF BUSITEMA

UNIVERSITY

MAY, 2022

**DECLARATION**

I Makoba Francis do declare that this Farm and community Practice report submitted to the Faculty of Agriculture and Animal Sciences, Busitema University, Department of Agribusiness and Extension for the award of Degree of Bachelor of Science in Agriculture is my original work and effort, and has never been submitted to any other University for the award of an academic qualification.

Sign: .....  ..... Date: ..... 18<sup>th</sup> - MAY - 2022 .

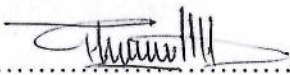
MAKOBA FRANCIS.

BU/UP/2018/2268

**APPROVAL**

This is to certify that this Farm and Community practice report was written by Makoba Francis under my guidance, supervision and I hereby affirm it to be submitted to the Department of Crop production and management for examination with my approval as a field supervisor.

**FIELD SUPERVISOR**

Sign:  ..... Date: 17/05/2022 .....

**Mr. OKUMU AKISOFERI**

**Manager Jabba Soil Laboratories, Mbale Branch.**



**ACADEMIC SUPERVISOR**

Sign: ..... Date: .....

**PROF. MASANZA**

Lecturer, Department of Animal Production and Management, Faculty of Agriculture and Animal Sciences, Busitema University.



**DEDICATION**

I dedicate this work to my family, Jabba Engineering Limited, Busitema University Arapai Campus Staff not forgetting my fellow students for the support they offered to me during this practice period.



## **ACKNOWLEDGEMENT**

I would like to express my deepest gratitude to Prof. Masanza (University supervisor) and Mr. Okumu Akisoferi (field supervisor) for the supervision and guidance they gave me during my Farm and Community Practice period. My sincere thanks to all lecturers at the Faculty of Agriculture and Animal Sciences, Busitema University for the advice they granted me during the internship attachment period. I would like to appreciate you all for guiding me where necessary. I am also grateful to the Manager and Senior Agronomist Jabba Engineering limited for granting me the opportunity to do my farm and community practice. May God bless you all?



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**LIST OF ABBREVIATIONS:**

MAAIF..... Ministry of Agriculture, Animal Industry and Fisheries.

DAT.....Disruptive Agricultural Technologies

ACDP.....Agriculture Cluster Development Project

MIS.....Management Information System

JEL.....Jabba Engineering Limited

UK.....United Kingdom

PH..... Potential Hydrogen



**LIST OF TABLES AND FIGURES**



Table 1 showing different standard units for nutrients.

Table 2 showing nutrient test, equipment and procedure followed.

Table 3. Interpretation of soil nutrient ranges for Maize crop, example.

## ABSTRACT

This report contains and describes the activities implemented, skills and qualifications gained, challenges faced during the industrial training, conclusion and recommendations derived from the challenges faced at Jabba Engineering Limited. The objective of this farm and community practice was to make students apply the knowledge got from the classroom into real practical field work, gained the skills and knowledge from the fields to build self confidence in the students. During community practice I was attached Jabba soil laboratory Mbale branch after orientation afterward I was first introduced to the different departments and district official for familiarization and later I implemented the activities such as; soil sampling, nutrient testing, test result reading, analysis and interpretation, crop matching and giving recommendations. These activities made me to gained various skills like quartering to obtain a composite sample, good communication skills and confidence in training farmers on both soil and crop management during practice period, I also faced some challenges like; difficulties in farmers mobilization, high expectations from farmers, limited transport means for field work and poor time management by the farmers to the training venue. In conclusion all the activities were conducted and farm and community attachment was carried out successfully. I gained a lot from the period of attachment since my field supervisors gave me an elaborate practical skills and knowledge in line with my career and relating with people in the field. Observations made while conducting community and farm outreach are Farmer/Beneficiaries High Expectations where driven more to monetary expectations. Ignorance some beneficiaries were did not consent to sampling and profiling their gardens for fear that their land would be stolen, this was witnessed in West Budama, Tororo district while some farmers attempted to do the sampling themselves but did not know the correct procedures and techniques, dos and don'ts involved while conducting Soil sampling thus would pick samples from one part of the garden and consider that a soil sample.

However, for some of the challenges sited above, I recommend that the Company conducts more educational trainings to create awareness about the goals and legitimacy of the company so that farmers' fear of land theft is addressed. More awareness about the importance of conducting an accurate soil sample, testing a soil before making any amendments or recommendations is necessary so that farmers do not waste finances, make wrong judgements about the nutrient status of their soils and avoid fertilizer misuse.

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## **CHAPTER ONE: INTRODUCTION.**

### **1:1 INTRODUCTION**

- Community outreach coded BSA2209 was conducted at JABBA Engineering Limited, a company that offers soil testing services to its clients. Jabba Engineering Ltd (JEL) is a private limited company established in 2009. Under our Jabba Spoil Laboratories division, we pay special attention to productivity of soils by offering quality water and soil testing products and services to improve yields for both small holder and large scale commercial farmers. Our company draws more strength and synergies from palintest UK where we have operated exclusive dealership for Uganda since 2012.

### **1:2 OBJECTIVES OF THE FARM AND COMMUNITY PRACTICE.**

- To expose the student to community approaches for development and extension programs.
- To allow students learn and demonstrate certain Agricultural skills from the Community/farm.
- To provide technical advice to the community, farms and farmers.

### **1:3: BACK GROUND, THE ACDP PROJECT;**

- ✓ The Government of Uganda through the MAAIF received funding from the World Bank towards the implementation of ACDP. The project objective is to raise on-farm production, productivity, and marketable volumes of beans, rice, maize, cassava and coffee, in 12 geographical clusters, making up 57 districts. ACDP is uniquely designed to leverage digital and Disruptive Agricultural Technologies (DAT), delivering Agricultural Support services to farmers including; input subsidies, extension and market information through innovations such as e-vouchers, e-wallet, e-extension-diary, e-statistics, and Management Information Systems (MIS).

### **1:4 the DAT Innovation Challenge**

- ❖ MAAIF in partnership with the World Bank organized a DAT Innovation Challenge in 2019 in which agri-tech firms with proven agricultural digital solutions were invited to