MALKU INSTITUTE OF TECHNOLOGY (MIT)

Ug-HEEP Phase II: Construction of Poultry Production Unit

TECHNICAL PROGRESS REPORT

1. Introduction

In pursuit of Kijuuya HEEP-II phase implementation, it was agreed that the Poultry Commercial Demonstration Unit (CDU) will be the first one to be established. We set out to establish a broiler production unit at Malku campus in Kijuuya- Mubende District. Establishing the unit required to go through: - measurements of the structure; Estimation of building materials; Excavation and laying of the foundation; Walling of the sides; Welding of the doors and windows; Roofing; Finishing (indoor and outdoor); Installation of water tanks for water harvesting; and establishment of wind breaking system.

2. Work done so far

a. *Construction of the Poultry Unit*

Construction begun on the 5th of April 2021 and by June 2021, the unit was approximately 95% complete. The constructed structure covers a total outer area of 1875 square feet (75ft length by 25ft width). It subdivided into two rooms; a small one ('the brooder' -25ft width by 13ft length) and a bigger one ('the production unit' -25ft width by 60ft length).

Brooder	Production Room
25ft by 13ft	**25ft width by 60ft length**

Some of the materials used during construction include; bricks, sand, cement, stones, high beam metal, metallic rods, welded mesh, bugler-metallic doors,

bugler-metallic windows, timber and iron sheets for roofing, plastic facial boards and plastic gutters among others. The windows have been guarded with welded metallic wind breaker rails, upon which rain/wind breakers will be hanged.

In addition, two plastic water (each with capacity of 10,000 liters) have been installed on the constructed structure.

b. *Capacity of the Unit constructed*

The structure has a total of 325 Square feet (as a brooder) for brooding purposes and a total area of 1,500 Square feet (as a production unit) for raising and finishing chicken. With the space available, the production room has capacity of

- ✓ raising between 1,500 to 2,000 broilers depending on the age and weight at sell **OR**
- ✓ raising between 750 -1,000 layers to 1,000 broilers.

c. *Supervision*

Throughout the construction phase, the site has been supervised by

1) A resident supervisor to ensure that all materials required are availed on time; and that construction is being done as agreed upon.
2) Dr. David K Lubega to ensure technical protocol are followed.
3) Pr. Moses to provide overall guidance.

3. Challenges

The presence of the Covid-19 Pandemic has caused us to move at a slow rate.

4. Construction Related Pending Work

With respect to the constructed structure, there only two activities pending, and these are;

a) Spraying paint unto the welded metals to protected them from future rusting and metal decays.
b) Procuring the rain/wind breakers.

PICTORIAL PRESENTENTION OF WHAT HAS BEEN DONE

Initial Stages










Current State











5. Way Forward/Action Points

i. Spray the welded metal as soon as possible.
ii. Purchase and install the rain/wind breakers
iii. Purchase and install assorted poultry equipment such;
    a. Lighting equipment.
    b. Feeders and drinkers.
    c. Brooding materials.
iv. Prepare to receive poultry attendant, e.g. though
    a. Creating an enabling environment to have a poultry attendant.
    b. Recruit a poultry attendant.
    c. Re-tooling the poultry attendant.
v. Book and stock Day Old Chicks (DOCs), and Raise the first batch of 500 birds.

6. Conclusion

We still have many opportunities to explore. Let us pray to God to give us life and, take away this pandemic.