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18/ENG05/052

MECHATRONICS ENGINEERING

Afe 202: Food Production and Health Awareness.

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INTRODUCTION

Domestic animals are raised in an agricultural setting to produce labor and commodities such as meat, eggs, milk, fur, leather, and wool. Such domestic animals are referred to as livestock, they are very essential to mankind not only because of the various essential commodities but some also serve as man-power on the farm. The breeding, maintenance, and slaughter of livestock, known as animal husbandry, is a component of modern agriculture that has been practiced in many cultures since humanity's transition to farming from hunter-gathered lifestyles. Animal husbandry practices have varied widely across cultures and time periods, and continues to play a major economic and cultural role in numerous communities.

- **Background**

NEW HOPE will be located in Umuahia south local government, Umuahia Abia state. It will be a sole-proprietorship business. The company will deal with the production of different livestock, farm animals with the inclusion of poultry, the category encompasses primarily chicken, turkey, cattle, sheep, pigs, goats, horses, donkeys, ram just to mention a few and also a part of this farm would be taken in the proper breeding off these animals. There would also be a fishery. The animals would all be treated and taken care of with respect to their different species.

My desire to add value to my country by creating job opportunities for people, particularly for the youths in my community drove me into entrepreneurship. Aside my unflinching love for development, I have discovered that Nigeria does not have any proper large-scale livestock farm with proper funding and maintenance. This has prompted me to open NEW HOPE where I can put my skill and creativity to use whilst still adding value to others.

- **History.**

Animals are staple food which is eaten in most countries around the world. Animals are domesticated when their breeding and living conditions are controlled by humans. Over time, the collective behavior, lifecycle and physiology of livestock have changed radically. Many modern farm animals are unsuited to life in the wild, some animals that we see domesticated or in our homes are descendants of some wild animals or were domesticated in the past and now seen in our homes as pets or in farms as labor animals or livestock. Animals have always been of value and importance to man, whether its from transportation, to as beast of burdens to as food. Over the time mans need for animals as livestock has grown massively, that is why there is a massive need especially in Nigeria where there is unemployment and hunger, for an enterprise like NEW HOPE.

Objectives

1. To meet the needs of people in the society by providing the best livestock for food through proper cross-breeding of healthiest species.
2. To provide job opportunities for people, particularly the youths.
3. To earn profits.
4. To sustain economic growth.

CHAPTER 3

Market and Marketing Analysis

- **Our products**

NEW HOPE products include:

- I. Pig meat,
- II. Cow's milk,
- III. Beef,
- IV. Chicken meat,
- V. Egg (in shell),
- VI. Sheep mat,
- VII. Cotton.
- VIII. Goat meat.
- IX. Fish. etc

- **Nature of Market**

Nigeria, a country thriving from its agricultural produce with an increase in economic activities and infrastructural development. An efficient and prosperous animal agriculture historically has been the mark of a strong, well-developed nation. Such an agriculture permits a nation to store large quantities of grains and other foodstuffs in concentrated form to be utilized to raise animals for human consumption during such emergencies as war or natural calamity. Furthermore, meat has long been known for its high nutritive value, producing stronger, healthier people.

New Hope would be the first of its kind, in the large-scale rearing of livestock with the sole aim of cross-breeding healthy livestock to ensure high nutritive value of its produces. This would help to publicize our market value (because our rich and healthy produces). In a state like Abia state, the construction of this farm would be life changing for a lot of citizens due to the large scale of employment it brings and also in Nigeria as a whole. This would also bring an increase in revenue and income.

CHAPTER 4

Project Engineering

- **Plants and equipment.**

. Feeding equipment

Finding a feed mixer for sale should be at the top of your to-do list. A feed mixer will shred and mix all kinds of products to get a soft and unified ration for your livestock to easily consume. Feeding equipment also makes the distribution of feed easier and more efficiency.

Livestock trailer

If you intend on keeping large livestock, such as cows, horses or sheep then having a trailer to transport them with is vital. Buying your own trailer will save you from having to hire one each time you need to haul your animals.

In between the times you need to haul animals, your trailer can be used to move other items on your farm, such as firewood, feed, hay and lumber. It is a diverse piece of equipment that will make moving your animals easier. It is important to have such a trailer in an emergency, in order to move an animal to a safe space to wait for the vet.

Waterers and water tanks

Large livestock need large amounts of water, so a waterer and water tanks are absolutely vital pieces of equipment for your farm. Cows and horses are very large animals, so you will need to have enough water tanks to manage their needs.

A manure spreader

Rearing livestock means that, sooner or later, you will need to use a manure spreader. This is a handy piece of equipment to have as whether or not your animals spend most of their time out in pasture, manure piles up quickly.

When spread thinly over the ground, manure can help to improve soil fertility, reduce contaminated runoff, and help keep fly numbers down. The tractor-driven units are able to carry more manure in one trip and are arguably the best option if you have large amounts of livestock and manure. The ATV units are ideal for those with only a few regularly stabled animals or a herd that is out to pasture most of the time.

A headgate

If you are going to be farming cattle, a headgate is one of the most vital pieces of equipment you will need. It should be sturdy, safe, easy to operate and quiet while in operation. A headgate is used to hold cattle in place while they are branded or if a vet needs to examine them. Headgates come in four basic types: self-catching, scissors-stanchion, positive-control and fully opening stanchion. The self-catching headgate closes automatically upon the movement of the animal. The scissors-stanchion has bi-parting halves, like a pair of scissors, which pivot at the bottom. The positive-control stanchion locks firmly but not painfully around the animal's neck and the fully-opening stanchion consists of two biparting halves that work like a pair of sliding doors.

Farming livestock can be highly profitable if you have the correct know-how and equipment. The most important pieces you will need for a successful farm are a feed mixer, water tanks and waterers and a headgate. Having a manure spreader will allow you to use the copious amounts of manure for a worthwhile purpose, while a corral system will help with managing your livestock. It is important to research every piece of equipment before you purchase it so you know exactly how it works.

- **Technical Partners**

- I. **Manager:**

Name: Mr. Azeez Odamiloru

Responsibilities:

Oversees daily production

Oversees work schedules

Assigning employee tasks

Ensures product quality

Keeps facility running, and clean

Planning, organizing, directing and controlling all the employees of the organizations as well as its relationship to each other.

Job Qualifications:

A graduate

Male or female

working experience

Has a good moral character and a pleasing character

Salary scale: 80,000 Naira monthly.

1. 20-80 AGRICULTURAL WORKERS, X156, YAKIMA & GRANGER, H2A - EMPLOYMENT SECURITY DEPT: For a worker to be considered for this position the worker must have a valid driver's license from either a state in the U.S. or his native country. This job is also physically demanding so is only ...
2. Multi-Purpose Metal Working Shop Employee: - Agricultural Manufacturing - Knoxville, we are seeking someone to help finish manufactured items and to become an integral part of our second shift team! This person will help finish fabricated items to prepare for shipment and many other.
3. Experienced Tractor Driver / Earth Moving Operator - California Agricultural Soil-works: Working knowledge of the hazards and safety precautions common to heavy equipment operations in agriculture and crop cultivation. * Skill in operation of above listed tools and equipment. * Ability
4. Field Worker: Outdoor conditions cannot be controlled and therefore the worker will be exposed to uneven walking ... agricultural market, including full recruitment, statement of work, and payroll services.
5. Service Technician: Performs complex diagnostics and mechanical repairs on agricultural and turf diesel/gas equipment.
6. Veterinary doctors and specialists
7. Agricultural scientists.
8. Production worker.

Chapter 5

ESTIMATED PROJECT COST

<u>Activity</u>	<u>QUANTITY</u>	<u>NAIRA</u>
Land clearing	2 hectares	460,000
Building fish ponds	10	200,000
Mounting headgate	5 areas	500,000
Large scale food strg	3	10,000,000

EQUIPMENT

<u>NAME</u>	<u>QUANTITY</u>	<u>NAIRA</u>
Feed mixer	10	5,000,000
Livestock trailer	3	20,000,000.00
Water tanks	5	5,500,000.00
Manure spreader	1	10,000,00.00
Food storages	3	10,000,000.00
Pick-up truck	2	20,000,000.00

IRRIGATION

Hose Reel	140-440MT	1,040,500.00
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Chapter 6

FUNDING MECHANISM

Due to the partnership with the state government and the commissioner for youths and development, they have agreed to aid in the funding of New Hope with a sum of 500 million naira which in the near future would provide large numbers of job opportunities and a source of income and revenue for the state and equity investor to provide equity for equipment and vehicle purchase.

CONCLUSION

Based on the research and study that we conducted, we therefore conclude that our business is feasible and viable in the market.