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Computer engineering

Executive Summary/ Project Description

This business plan examines the feasibility of and indeed economic viability of the development of a 400 acre poultry farm and the establishment of a chicken feed and fertilizer plant in Uyo Akwa-Ibom by Etalgate project ltd. The farm will produce about 10,000 crates of eggs in a production cycle. The poultry farm and fertilizer plant will process about 1,000 crates of eggs ,100 bags of fertilizer and livestock chicken for public consumption and fertilizer for farm usage . There is high domestic demand for these products because of our huge population and production constraints leading to shortage of the commodity. Production is currently popular in the south west with Ogun State and Osun as the lead producers. Nigeria imports significant quantity of chicken and its derivatives to augment domestic shortages.

The proposed project will create economic opportunities, impact positively on the people and help conserve scarce foreign exchange. The entire chicks to be processed will be sourced locally through direct production, contract farming in Akwa-ibom State and direct purchase from smallholder farmers in other production areas. The project will create market access, improve income of farmers and contribute significantly to food security. It will also generate satisfactory returns for sponsors and investors.

Sponsorship

The project is sponsored by Engr Edem Etok , an Engineer and chief executive officer of Etalgate Group of Companies . The company has a Department of Agriculture and experts with many years of experience in the project being proposed. Az Nigeria Agro-Consultancy will be responsible for the management consultancy of the projects.

Management

The management will comprise of a democratically elected Board of Directors at the apex of the organization structure. This will be made up of shareholders and member of the cooperative who have stake in the survival, growth and profitability of the business as well as distinguished agribusiness professionals of proven integrity and vast experience in the project area. The prime objective of the board will be to give strategic directions and policies that will ensure long term success of the organization. The board will ensure that the organization complied with all standards set by regulatory authorities.

The Managing Director/President shall be responsible for the co-ordination of the day to day management of the cooperative business. He is accountable to the Board of Directors; he will mobilize organization resources to achieve set goals. He will manage business risks and focus on wealth creation.

Market and Sales

Market orientation: domestic; South West & South East, Nigeria

Market Share: 5% niche market in South West, South East Nigeria

Competition analysis

Benue State alone produced 44% of national output between 1999 and 2017. Kaduna State followed with 27% of national output within the period. Taraba, Plateau, Kano, Niger and Katsina produced 6% and below in the period. The seven state mentioned above produced 94% of national output within the period. The only places where significant production took place in South West, Nigeria was in Saki West L.G.A. in Oyo State and Akure North L.G.A in Ondo State. Based on this above analysis, competition in terms of production in South West, Nigeria is non-existent. Compare to the demand for produce.

Tariff and Import Restriction

The presidential order to close down the border and illegal importation to the state. Forex restriction on food importation and zero duty on imported agricultural equipment will favour the project under consideration.

Market Potential

With a population of over 140 million people and an estimated national population growth rate of 5.7% per annum and an average economic growth rate of 3.5% per annum in the past five {5} years, Nigeria has a large market for poultry products. Again, In spite of the achievement recorded in this industry, the poultry farm products falls short of its aim of self-sufficiency in animal protein consumption in the Nigeria, that is put at 5gm/caput per day which is a far cry from F. A. O. recommended level of 35gm/caput per day.

The short gestation period of poultry business if proper management procedure is followed is one of the attractive aspects of the project. Poultry are kept mainly as a source of meat and egg. Chicken is one of the popular meats being classified under white meat having low cholesterol and superior to red meat health wise. Eggs have both domestic and industrial use and are produced by layers.

The rising middle class in Nigeria has continued to ensure the market for these products. Hence the profitability of this business is enormous if the proper management strategies are followed. A complete analysis of this poultry farm business opportunity is captured in this poultry farm business plan.

Profitability

Poultry farming has become huge business in Nigeria. This is mainly due to the increasing demand for poultry products among Nigerians. In fact, due to the rising demand for poultry products, Nigeria still imports poultry products. These imports make up for the shortfall in demand. Some of the imported poultry products comprise of frozen chicken, turkey and eggs among others.

From this little analysis, it is evidently clear that the potential for profitability is very high. With the right knowledge, investing in poultry will yield impressive profits to the farmer

Technical Feasibility

Land: This is one of the most important assets in poultry farming business. This's where the pen will the built. The land located far away from human residential quarters to avoid human health

issues. The environmentalist will not let you be if you're closer to residential area. The land topography has to be flat and the soil is not too muddy or rocky. When building poultry pen, make sure you consult seasoned specialist. A single mistake in poultry housing design can destroy your investment.

Poultry Housing: There are different designs available depending on the type of poultry production you are interested in. Poultry pen should be constructed along the East-West horizon. This will ensure that pen house does not suffer long duration of high temperature during the day.

In this connection, the design of poultry house is very important to the survival of your stock. Correct stocking density in battery cage and deep litter system is important as this prevents overcrowding which can lead to tramping, increased competition for food and water, suffocation, pecking and rapid spread of disease.

Brooding: Brooding is the business. Even though it is safe to start with some weeks old broiler birds and point of lay as a newbie, it is better to learn how to brood yourself.

Feeds: Cost of poultry feeding carries major share of your total cost of production. Before you dive into this investment, it is good that you calculate and project the funds needed to feed your birds till when they are ready for the market. For instance at adult stage, 250-300 birds will finish one 25kg bag of feed daily. This gives you approximately what one bird consumes per day. Formulation of poultry feed can be helpful. If you produce own feed, product cost of production will be lower.

Tools: It is important that you get adequate number of drinkers and feeders for birds. The height of these containers must not pose stress to them. Poultry tools include; Housing, cages, Incubator, Feeder, Water Pot, Heater, Laying Nests, Egg Handling Nest, etc. Ensure you budget for all.

(3) HEALTH TECHNIQUES:

Consider the influence of the following in the entire business and take adequate measure to control them.

- In battery cage system, make sure you examine nipples routinely. That's to ensure none is blocked, clean feeder trays and drinker pipes regularly.

- Observe your birds frequently for any diseases signs. Check them for lack of appetite, clustering, weight loss, discharges from eyes, beaks and nose, faeces-pasted vent, change in consistency and colour of faeces, gaping, difficulty in breathing, reduction in egg production, swollen or discoloured comb and wattles etc.
- Maintaining strict biosecurity and hygiene on your poultry farm will go a long way in protecting your birds against infection.
- Provide foot dip and limit visitors to your farm. Make sure farm hands and equipment are not rotated carelessly among your pen. Spray tires of vehicles coming into your farm.
- Ensure prompt removal of poultry dung as this can serve as source of bacterial growth and ammonia gas generation on your poultry farm.

DISEASES AND CONTROL:

Vaccination is very vital. It should be given as at when due to protect your flock against endemic diseases. Measures include Newcastle Disease Vaccine, Gomboro Disease Vaccine, Marek Disease Vaccine, EDS Vaccine. Buy vaccines only from reputable outlets to be sure that cold chain is preserved.

(4) MARKETING:

- You need to put in place effective marketing strategy. Success in poultry farming business may depend on marketing strategy adopted for farm. Many poultry farmers in Nigeria lose millions during egg glut when they can't get market for eggs.
- Extensive market survey will influence how large you want to produce. This will enable you sell off poultry birds and products. Ensure you grow a huge list of middlemen who will help distribute your produce in case one disappoints.
- Source for outlets for your broiler birds such as eateries before you commence production at all. The profitability of broiler production in Nigeria is undeniable. If you're going into layers production, take your time to conduct intensive feasibility study on poultry egg production business in Nigeria.

Government Support and Regulation

The project conform with the economic diversification objective of the government. It also supports foreign exchange and import reduction conservation of government. It creates economic opportunities, market access, improved income for farmers and support food security objective of government. The project will benefit from government intervention fund in the agriculture sector. The project will also benefit from the favourable policy of zero duty for agricultural and equipment import. Restriction of forex for all food products will also widen market opportunity.

The project will contribute significantly to employment, output increase, stable price and stable exchange rate.

Project Timeline

The firm will be a commercial poultry farm; therefore it will require a full time labour and geared towards productivity on a scale for the sales of egg and sales of broiler birds.

For egg production, birds usually starts to lay at 18-22 weeks of age and continue to lay for Twelve months (52weeks) on average laying fewer egg as the new mounting period. The typical production cycle last about 17 months (72 weeks) and involves three distinct phases as follows:

PHASE 1: Pullets or broilers: This phase last from 0 – 8 weeks during which small chicks (pullets) are kept separately from broilers.

PHASE 2 (GROWERS): This period concerned is between 8 – 21 weeks of age. Growers are the future laying birds and the way they grow up will largely determine how well they do in the laying house. Therefore management during the growing period is very important.

PHASE 3 (LAYERS): The laying period is taken to have started when the birds reach 5% egg production on a daily basis. The laying period continues until the birds are sold at the end of a

laying period of normal length or are force mounted Housing time starts with the beginning of the laying period. The number of birds housed is the number of pullet in the laying house when egg production starts.

7.0 Estimated Project Costs and Revenue Fixed Cost

Layers	N6,162,000	
_____ Broilers		N1,710,000
_____		N7,872,000

CAPITAL EXPENSES

2 plots of land @ N150,000	N300,000	
Block 2000 pcs @ 110	N220,000	
Cement 60 bags @ N1800	N108,000	
Cement Carriage	N3,000	
Woods	N151,700	
		N1,071,200

Roofing Sheets	N126,000
Roofing Slate	N25,000
Ceiling Slate	N15,000
Reggie's	N7,500
Nails	N12,000
Net 15 bundles @ N4000	N60,000
Iron door	N43,000

SANDS

Stone Big 2 tipper @ N25,000	N50,000	
Sharp sand (Mayans)	N20,000	
<hr/> Soft Sand		N22,000
	N92,000	

TOOLS

Day old feeders 30pcs @ N120	N3,600
Day old Drinker 15pcs @ N200	N3,000
Feeders 60pcs @ N550	N33,000
Drinkers 12pcs @ N2500	N30,000
Shovel & Head pan	N2,000

Thermometer (Digital)	N8,000
Scale (Digital)	N10,000
Geepee Tank 1500litres	N23,000
Geepee Tank 500 litres	N14,000
Nylon 7 pcs @ N700	N4,900

WORKMANSHIP

Carpenter	N65,000	
Bricklayer	N80,000	
_____	Miscellaneous	N130,000
	N275,000	

Business Registration	N20,000
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PRODUCTION

1000 pullets @ 140	N140,000	
_____	400 broilers @ 130	N52,000
	N192,000	

OPERATIONAL EXPENSES

Feeds, Vaccines & upkeeps	N1,330,000
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Salaries and stationeries	N240,000
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N1,570,000

SUMMARY

Capital expenses	N1,781,700
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Operational expenses	N1,570,000
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TOTAL EXPENSES	N3,351,700
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Funding Mechanism

The government will provide 400 acre of cleared farmland around the university and lease it to members of the cooperative. Equity investor to provide equity for equipment and vehicles purchase Where possible equity investor to provide equity for working capital or otherwise secure loan at the rate of 9% through government intervention window at the Bank of Agriculture, Bank of Industry and Commercial banks.

Conclusion

The project is technically feasible and commercially viable. It is therefore recommended for funding.