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**DEPARTMENT: MEDICAL LABORATORY SCIENCE.**

**COURSE CODE: AFE 202.**

**COURSE TITLE: FOOD PRODUCTION AND HEALTH AWARENESS.**

**CA/ASSIGNMENT: Prepare a business plan on a chosen agricultural enterprise following the guideline in the note.**

 **BUSINESS PLAN ON PIG FARMING**

 Pig farming is the raising and breeding of domestic pigs as livestock. It is a branch of animal husbandry. This business plan is to be associated with farming pigs principally for food and skins. The style of farming proposed is the intensive pig farming as it is more preferable and allows many more pigs to be monitored than traditional methods (letting them roam around), ensuring minimum fatalities, lowered cost and increased productivity. Pigs have a limited tolerance to high temperature and heat stress can lead to death so a more specific temperature is used for the pigs in intensive farming other than extensive pig farming where they are exposed to unsuitable climate, also weather condition in the location proposed in Nigeria is suitable for Pig farming.

 Pigs are valued as a source of meat and fat and for their ability to convert inedible food into meat. They can be feed with household food waste when kept on a homestead, therefore, there is a reduction in cost for animal feed and disposal municipal garbage on a large scale. This business plan is very resourceful and doesn’t need high amount of investment and it can be used as a good source for export on an international basis as pigs are a popular form of livestock, with more than one billion pigs butchered each year worldwide, 100 million of them in USA, hence a viable source for international trade.

 Pigs are farmed in many countries, though the main consuming countries are in Asia, meaning there is a significant international and even intercontinental trade in live and slaughtered pigs. Approximately 1.5 billion pigs are slaughtered each year for meat. And despite having the world’s largest herd, China is a net importer of pigs and has been increasing its imports during its economic development. In Nigeria, Pig farming can be a source of employment and income.

 Pigs are not only used for food but also supply skin, fat and raw materials for use as Clothing, ingredients for processed foods, Cosmetics and Medical use. The reproduction period and system of Pig is a faster than any other livestock like cattle or goats. A sow generally gives birth twice a year. Each time, they give birth to 10 piglets (sometimes more) and the gestation period is not more than 115 days and also pigs can convert more energy/nutrient into protein and as a result they grow faster than cattle, goats or other livestock animals. So even if this business is to start small with few pigs, we could become a large scale commercial production within a small time.

**A FEASIBILITY REPORT FOR THE DEVELOPMENT OF A PIG FARM AT ATUMA, OSHIMILI NORTH LGA IN DELTA STATE,NIGERIA BY JOSEPH AGRIBUSINESS VENTURES AND CONSULTANCY CONFIDENTIALITY AGREEMENT.**

 The undersigned reader acknowledges that the information provided in this business plan is a confidential intellectual property; therefore the reader agrees not to disclose it to a third party without the express written permission of the promoters of the proposed business.

 It is acknowledged by the reader that information furnished in this business plan is in all respect confidential in nature, other than information which is in the public domain through other means and that any disclosure or use of same by the reader, may cause serious harm or damage to the promoters of the proposed business.

Upon request, this document is to be immediately returned to the promoters of the proposed business

Signature: Name: Date:

**Executive summary/project description**

 This business plan examines the feasibility of and indeed economic viability of the development of a Pig farm in Delta state by Blessed Farmer’s Cooperative society limited. The plan is to build Four Pig houses, bring in 60 pregnant sows, sixty matured sows, another 240 gilt and 160 Weaners all female. The Only male stock shall be Ten high quality boars stock from a different farm. Within Two months, the farm shall expect to harvest about 500 piglets and the synchronized next set would follow in another four month (500 or more piglets) post stocking. The annual turnover in terms of piglet production is about Thirty million naira from the sales of 3000 weaners and Thirty eight million from sales of grown out pigs (480 Pigs) yearly, Hence expected annual gross turnover is about N68,000,000

 Blessed Farmer’s Cooperative will commence operation with the construction of four Pig houses, a feed house and suck away pit. House 1 will hold 120 Sows, (60 in-sow and 60 dry sows), these shall occupy the 30 standard pens leaving the 4 big pens empty. Within two months, the sows begin to farrow. The other 60 dry sows shall be synchronized to come on heat in group and are accordingly serviced. Ten high quality boars will be utilized for service. Piglet will be weaned between 4 to 8 weeks depending on liter size. Piglets while with the sow, their food is supplemented via creep feeding. (A creep feeder is incorporated in the building of all standard pens). Once a set is weaned, the sows are transferred to the big pen where they stay in group of seven or eight and are synchronized, flushed and serviced. House 2 and House 3 will house the gilt, two per pen. The gilt are raised to sexual maturity, synchronized and serviced in group similar to House 1. House 4 will house the pigs kept for fattening. Male here are castrated, the House would hold between 160 to 168 pigs at each point in time. This house can keep 4 sets in a year while Houses 1,2 and 3 will have the sows produce two sets of piglets per year. Animals from the farm are sold as weaners or adults for slaughter.
 The farm can be expanded to 4000 Pigs with the introduction of 28 additional similar Pig Houses in the second year. Pork, beacon etc could be processed from this farm. Biogas could be produced from the animal dung. High quality Boar semen could be imported from France and utilized for artificial insemination and production of good piglets. The demand for pig and it’s by product is always on the increase in countries like China and the proposed project will create economic opportunities, impact positively on the people (job creation) and serves as a foreign exchange. The project will create market access, improve income of the farmers and contribute significantly to food security. It will also generate satisfactory returns for sponsors and investors.

**Sponsorship**

 The project is Sponsored by Agada Emmanuella Nkem, a legal medical laboratory Scientist and owner of Green-leaf laboratory. Agada Emmanuella Nkem is promoting the productivity of smallholder farmers in Delta State through the Blessed Farmers Cooperative Limited. This society has many years of experience in the Project being proposed. Joseph Agribusiness ventures and 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.

**Technical assistance/feasibility**

 The projects (rearing and slaughtering of pigs for sale) does not require high technicality in terms of equipment. In terms of technology, manual equipment is mostly needed like butchering knives and feeding troughs. So, there isn’t much need for technology, just manual and man labour.

**Market and Sales**

 Advertisement will be placed on social media, direct sales will be done by the marketers and the following shall be the target: Hotels, eateries, abattoirs, food companies, animal market and individuals.
Target cities: Enugu. Onitsha Awka, Benin, Owerri, Aba, Abakilike and other cities within Anambara, Edo, Enugu and Delta states

**Possible Risk analysis** Pigs are very hardy and resistant to diseases but the following hazard should be taken seriously. These include Swine influenza, Erysipelas, Foot and Mouth disease and less devastating ones such as Lice, worm, exudative dermatitis, cocccidioses, salmonelloses, swine dysentery, and other Bacteria infections.
 Disease prevention measure include proper waste disposal, hygiene, proper aeration and ventilation, and application of biosecurity measures such as not permitting other animals or animal handlers access to the pigs or even the farm. As the farm expand, a veterinarian should be employed to maintain Preventive measures and optimal health condition.
 These include theft, mismanagement, fire outbreak, natural disasters, civil disturbances etc can all lead to farm failure. Insurance policies should be put in place for livestock and equipment.

**Competition analysis**

 There isn’t much Competition in Nigeria on Pig farming because most people dread the idea of rearing pigs as they’ve been stereotyped as dirty animals and easy carriers of disease.

**Tariff and Import Restriction**

 China’s cutting of import tariff on pork will favour the project under consideration.

**Market Potential**

There is strong demand for pork in China and many other Asian countries.

**Profitability**

 Weather, biological, chemical, physical and environmental factors such as temperature, sunlight, water, air, varieties of pig, pests, diseases, price fluctuations and other risks e.g. theft, mismanagement, fire outbreak, natural disasters, civil disturbances s invading the farm could affect yield and profitability. Hard work of the labourers will also be in action to keep the pig houses and pigs neat to prevent diseases and security measures will be taken.

**Government Support and Regulation**

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

**Project Timeline**

 The project will be completed within Two Years and three months. The three months will be used to build the pig houses, get the necessary equipment and feed while the remaining years for rearing.

**Estimated Project Costs**

 Initial cost of procuring stocking pigs would be about **N15,350,000** .The four pig building will each occupy 9meters by 63meters, having 30 standard pens and 4 large pens each at the cost of **N12,765,000** . There will be a suck away pit for sewage drainage and double manure pit. All buildings connected to an overhead water system. Total cost for the construction of the pens, including the cost of plumbing, the nipple system, fogger system, drainages and plumbing is **N51,048,000** The cost of constructing waste disposal system **N478,000** and cost of constructing the store , feed processing house is **N1,340,000** hence total construction cost is **N52,866,000**, Budget for feed in the first year feeding **N24,000,000**. Grand total budget till the farm breakeven is **N87,216,000**

**Types of Pig Quantity p.a Price (N) Total p.a (N)**1 Weaners- **3,180 10,000 31,800,000**2 Fattened Pig- **672 60,000 40,320,000**
3. Stock (Sows/Boars)- **370 80,000 29,600,000** = TOTAL= **4,222 101,720,000**. Stating the intial stock was 530 pigs and by a year and half, the expected stock turn over will be 4,222.
**Funding Mechanism**

 Agada Emmanuella, the medical laboratory scientist will provide a land at her hometown, Atuma, Oshimili North LGA in Delta State and lease it to members of the cooperative, the working capital will also be provided by her.

**Conclusion**

 The project is commercially viable and very profitable. It is therefore recommended for funding.

**APPRAISAL**

 I, Blessing Simon, an independent analyst has taken a critical review on all assumptions made concerning the project budget starting from the technical to the commercial, environmental and financial aspects of the feasibility report to establish reality. I have reviewed input prices, expected output and output prices, market share, industry structure, competition, production technology, availability of manpower, availability of inputs, effective demand for the products, target market, sensitivity to price change, profitability and other aspects.

 So therefore, I ascertain the reality of the assumptions stating no serious flaws were discovered and propose a free flow of this business.

**IMPLEMENTATION/MONITORING**

 This business plan will be monitored by I, Agada Emmanuella and will ensure that actual result reflects the expected result as contained in the feasibility report. I will make sure the budget is closely monitored for variability and deviation since price is a dynamic variable that is determined by prevailing market conditions. I also state to ensure viability of project at all time.

**EVALUATION/SUMMARY**

 This business plan will not be easy as it takes Courage and perseverance but with the help of the above personalities listed following the steps proposed, this will be one of the most successful Agricultural enterprise ever proposed.