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***200 LEVEL***

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**PREPARE A BUSINESS PLAN OM A CHOSEN AGRICULTURAL ENTERPRISE**

 ***FISH FARMING***

Fish farming or Pisciculture and also other agricultural venture is a dominant aspect of the nation as a whole and the economy. Today, fish gives more than one billion poor people with moat of their daily animal protein. Fish provides nutrients and micronutrients that are essential to cognitive and physical development especially in children and are important part of a healthy diet. Globally, more than 250 million people rely directly on fisheries and aquaculture for their livelihoods and millions are employed in fishery. The very poor often depend on fishing as a primary source of income. Improving the fecundity of fisheries and aquaculture is essential to reducing hunger and poverty for millions in the developing countries. Also, high-yielding fisheries and aquaculture improve food and nutrition security, increase income and livelihoods, promote economic growth and protect our environment and natural resources.

***IMPORTANCE OF FISH***

 . Fish play important role in fighting hunger and malnutrition. Fish is not only a course of protein and healthy fats, but also a unique course of essential nutrients. Fish plays an important role in nutrient cycle because they store a large proportion of ecosystem nutrients in their tissues, transport nutrients. Fish posses a great economic, nutritional, medicinal, industrial, aesthetic and religious values as well as providing employment for millions of people in the world, providing a diversified and nutritious diets.

1. ***FOOD VALUE:*** Fish serves as an important food for human. Edibles tissues of fish are appreciably greater than that in chicken and pigs. 65% of the raw weight of fish is eaten compared with 50% of chicken and pigs and 40% of goat. The total estimated fish production of the world as at 2012 was 158 million.
2. ***NUTRITIONAL VALUE:*** Fish is highly nutritious. It provides a tasty, low-calorie meal but is a good source of high-quality protein. The protein content in fishes varies from 15-30% on wet weight basis and 60-80% on dry weight basis. The protein of fish is highly digestible and with well- balanced amino acids. Fishes are low in cholesterol and fat. It is also a good source of vitamins A, B and D and also offers a good source of calcium, iodine , fluorine , magnesium and zinc.
3. ***MEDICINAL VALUE:*** Fish is low in fat, high in protein and an excellent source of Omega-3 fatty acids. Regular consumption of fish can reduce the risk of various diseases and disorders.
4. Fish serves as foodsupplyforhuman
5. Fish is used forornamentalpurposes

***A FEASIBILITY STUDY FOR THE DEVELOPMENT OF A FISHERY PLAN OF MABBASS LIMITED AT MAKUN OMI, WATERSIDE, OGUN STATE, NIGERIA.***

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 ***INTRODUCTION***

Mabbass fishing industry and Pisciculture LLC is a world class and licensed Fish and Seafood Pisciculture Company that will be based in a riverine area in Makun Omi, Waterside, Ogun State, Nigeria. We have made our research on detailed market feasibility studies. Our fish and seafood farm is going to be a standard fish and seafood farm hence will be involved in raising finfish(for example Catfish), raising and harvesting shellfish(For example Oysters), raising and harvesting ornamental fish(for example Tropical fish), raising and harvesting aquaculture species to expand or replenish wild habitats, and raising and harvesting other pisciculture (example turtles).

***PROJECT* *DESCRIPTION***

 The fishery plan is for the purpose of producing different types of fish and selling them. The labour needed would be available, particularly the unskilled, which are readily available in the project area. Manual construction would be espoused for the construction of the fishponds because of the economic precedence. The market existing in the area has not been manoeuvred thus, the project market is therefore boundless and all fish would be a ready market. The demand for fish exceeds the supply.

 Recommended electric power would be supplied by a 6Kva generator. The electric supply would be used in pumping water from the borehole. There would be no difficulty in the introduction of technology to be adopted for this project. The manager of the project will be an adequately trained personnel with skills in fish farming.

***PROJECT* *LOCATION***

 A careful deliberation has been given to the easy accessibility of abundant amount of water, easy accessibility to the site, easy accessibility of production inputs, marketing channels, socio-economic aspects, proper climatic conditions and among others. The project would be located on a 150 by 250m piece of land at Makun Omi. The main decision to locate the proposed fish farm at Makun Omi was based on the fact that the market for the product is large and can be profitable. Also, the cost of the land is considerably low because it is presently not used for any major economic venture.

***PROJECT* *TECHNICAL FEASIBILITY***

 The project is technically feasible. The project would be in two definite compartments, which are fish production and a hatching unit. The fish production section would be concerned with the production of table size fishes for consumption. The layout of the production would start with two production ponds measuring 25m2 each. In the first year of operation, the ponds would be constructed and stocked. The two initial ponds would have a total fish density of 12,000 catfish fingerlings when stocked. In the second year, two additional production ponds measuring 25m2 each would be constructed.

The hatchery section starts in the second year of production. At this time, all the fingerlings required for the production ponds would be supplied from the hatchery. In this section, the catfish would be artificially induced to spawn by hormonal treatment using pituitary hormone within the hatching units. In the hatchery, four female brood fish each weighing 500g ca produce 10% body weight of eggs. The rate of hatchability is estimated at 60% and the survival rate of fry to fingerling at 40% which means that the hatchery can produce 20,000 fingerlings from the 4 brood fishes which is sufficient to meet the fingerling requirements of the production ponds after the initial cropping.

***PROJECT* *EXECUTION* *PLAN***

 Once the project is fully implanted, a total of 1 brooder and 2 nursery transition ponds would be constructed. The brooder ponds measure 4 by 4m and the nursery ponds measure 3 by 4m. four production ponds would also be constructed and stocked for the production ponds.

***PROFITABILITY***

 Technical, scientific and financial based solutions will be employed to hedge against risks and safeguard profit.

***PROJECT* *TIMELINE***

 The project will be completed within a year preferably July ,2015 to June, 2016 because land option and clearing is done during the dry season.

**ECONOMIC/FINANCIAL PLAN**

**COST OF LAND AND FISH FARM INFRASTRUCTURE DEVELOPMENT**

|  |  |
| --- | --- |
| **ACTIVITY**  | **AMOUNT(=N=)** |
| 1. **Cost of land and development**
 |  |
| Land acquisition | 2,500,000 |
| Survey of land | 150,000 |
| Pond construction | 1,000,000 |
| **TOTAL** | **3,650,000** |
| 1. **Fish farm infrastructure development**
 |  |
| Cost of farm house | 3,000,000 |
| Fencing of the farm | 1,500,000 |
| Fish shade building | 700,000 |
| Generation of power | 500,000 |
| Water pump | 100,000 |
| Borehole | 900,000 |
| 2 800litre tanks | 600,000 |
| **TOTAL** | **7,300,000** |
| 1. **Fish production and hatchery materials**
 |  |
| Equipment(nets) | 1,500,000 |
| **TOTAL** | **1,500,000** |
| 1. **Salaries and wages of staff**
 |  |
| Farm supervisor | 400,000 |
| Farm assistants | 250,000 |
| Security | 200,000 |
| **TOTAL** | **850,000** |
| 1. **Variable inputs**
 |  |
| 12,000 fingerlings | 360,000 |
| Feed 2mm – 5mm | 300,000 |
| Organic fertilizer | 20,000 |
| Transportation | 350,000 |
| **TOTAL** | **1,030,000** |
| 1. **Other costs**
 |  |
| Fuel | 60,000 |
| Maintenance of pond | 150,000 |
| Maintenance of equipment | 175,000 |
| Stationery | 40,000 |
| **TOTAL** | **425,000** |
| **GRAND TOTAL** | **14,755,000** |

**OPERATIONAL COSTS**

Includes the cost of the day to day management of the hatching, the wages and salaries of staff and procurements of the other operational inputs.

**CONCLUSION**

 The project is technically feasible and commercially viable. It is therefore recommended for funding. The fish farm when in full operation would have tremendous economic and socio economic well-being of the people in Makun Omi. The fish farm would be a highly profitable project which would generate sufficient cash to sustain production from the second year.