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## FISH FEED PRODUCTION OF CLARIAS GARIEPINUS FOR ENTREPRENEURIAL SKILLS DEVELOPMENT IN BIOLOGY

Konyeme Josephine Ese  
Department of Integrated Science, College of Education, Agbor, Delta State  
and  
Ukpene Anthony Ossai  
Department of Biology, College of Education, Agbor, Delta State

### Abstract

*Fish resources contribute substantially to the socio-economic development of a nation through the provision of labour to a large population and food rich in annual protein. Fishing generates income and savings on foreign exchange. The high cost of conventionally pelleted fish feed has severally constrained the development of low-cost aquaculture system. The development of fish feed production for sustainable entrepreneur development in the face of the world's global economic crisis and food shortage is a step in the right direction.*

### Introduction

Fish is an important source of protein, which should be cheap and readily available, particularly in a country like Nigeria, that is blessed with a substantial coastline and vast inland water bodies. Yet we only produce about one-third of the quantity of fish required for the population. The fish scarcity experienced in Nigeria can be eradicated through promotion and popularization of fish feed production to make food readily available and affordable to all Nigerians through entrepreneurial skills development among biology students in fish feed production.

### The Concept of Entrepreneurship Education

Kourilsky (1995), defines entrepreneurship education as "opportunity recognition, marshalling of resources in the presence of risk, and building a business venture". While Bechard and Toulouse (1998) defines it as "a collection of formalized teaching that informs, trains, and educates anyone interested in participating in socioeconomic development through a project to promote entrepreneurship awareness, business creation, or small business development. This means that skills that can be taught and engendered in students that can help them develop new innovation plans. With reference to integrated science skills taught in classes should be needed by the Entrepreneurs and the curriculum generally should address important functions of running a business. Therefore under the current period of economic growth, many are advocating entrepreneurial education to develop new ideas and start new business.

*Claria Gariepinus*, a highly priced fish in Nigeria due to their good taste and flavour is one of the major catfish species of the family Clariidac. It is the most culturable fish species. The fish inhabits freshwater bodies and can tolerate low dissolved oxygen and high turbidity (Reed et al 1967; Fagbero 1989; Idodo-Umeh, 2003). It feeds on any available food, including plankton, insects, fish, detritus, benthic invertebrates (annelids) and tadpoles requirement for the fingerling stage as reported by (Fagbenro et al 1992): The Nigeria fish biologists have not been able to meet the demand for the species by the population. Hence, there is a need to boost the production of this highly commercially demanded culturable fish with high growth rate for food sustainability in Nigeria to alleviate food shortage problems.

This survey will provide information on steps on fish feed production and reiterate the need for a biology graduate to be effective in the production and their becomes self-reliance as a result of the development of acquired entrepreneurial skills.

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## **Nutrient Requirements of Fish**

According to Falaye(1988), the nutrient requirement values provide information on the daily nutrient needs of desired species in order to supply these amounts in diets for good fish performance.The nutrient