



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_12886
Title of the Manuscript:	REPLACEMENT OF FISH MEAL WITH BAMBARANUT WASTE MEAL IN THE DIETS OF LARVAL AFRICAN CATFISH <i>CLARIAS GARIEPINUS</i> BURCHELL (1822)
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	- You have to include table describe the proximate analysis of BAMBARANUT WASTE. - You have to study if this BAMBARANUT WASTE is lacking some essential nutrients such as essential amino acids and fatty acids. - Which other age stages that could benefits from the replacement with fishmeal (larval stages, Juvenile or sub-adults). - Did you proof that BAMBARANUT WASTE does not contain antinutritional factors - You have to mention something about the palatability of the feed such as comparison of the feed intake between treatments - Cannibalism is a major problem in larviculture of catfish due to differences in sizes and also due to shortage in essential nutrients in the feed, did you find differences between treatments that led to cannibalism or did you noticed cannibalistic behaviour due different feed treatments. - Where is the control feed that is commercially available for this larval stage of the catfish? - You cannot make accurate only based on your treatments, you have to use the control , it is essential part of the scientific research, this also, affect the results of the statistical	Proximate analysis of bambaranut waste meal has been done and is attached to the work. In another experiment and article, I did analyze the protein and amino acids of bambaranut , (Enyidi 2012, Production of feeds for African catfish using plant proteins). The replacement of fishmeal with BNWM can be very beneficial to adult catfish. This is because the adults can easily digest the carbohydrates in the feed. I am analyzing BNWM for presence of possible phytase. Some researchers said that bambara nut meal has some phytase but my result on that will be attached. The larval catfish readily accepted experimental diets irrespective of feed type. This was mentioned in discussion and it may be due to the content of BNWM. Bambaranut has glucose, fructose and galactose. The fry were fed to satiation and we did not record cannibalism and mortality. This may also be due to period of research the cold weather condition that may have reduced activities and agonistic behaviour. We used Feed 1 which had no fishmeal and highest BNWM diet as sort of control.



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	analysis - In materials and methods section you started with WATER QUALITY and what is behind it is not related to the water quality, you have to start with the experimental design and the conditions under which the experiment carried out - Where is the initial weight of the larvae - FISH GROWTH AND NUTRITIONAL PARAMETERS the formula for each parameters needs to be written in standard scientific style, there is so many papers you can take the right formula from it - There is a major revision in the materials and methods part, need to be re-written on scientific standard style - You have to present your results by a good way not enough to just indicate that the information is in the tables, you have to explain them well - The main of the replacement is to save the feed cost due to less or no inclusion of the fishmeal, where is the feed cost and the benefits that farmers could obtain from your new feeds - When you present water temperature you have to present the average of each treatment not the average to the study period - Also, you did not mention anything concerning the water quality where in materials and methods section or in the results - In table 2 you presented the values as absolute values where is the standard deviation of the values	Changes already effected. Initial weight has been written on the tables, although it was first stated in the abstract. Written already Formulas have been re written Correction noted and effected. Cost of feed production Kg⁻¹ calculated Noted and effected Noted and effected Noted and effected
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	- In feed composition table you have include the proximate analysis of each feed - -	Noted and effected
<u>Minor</u> REVISION comments	- Please update your introduction with some more recent references, there are so many papers published in that particular type of research - Please add some recent publication of replacement of fishmeal with other ingredients such as plant protein or food processing by-products - The discussion need more support of references not enough to use one reference to each statement you mentioned or each paragraph. - In the keywords you have to mention the name of fish species you are studying. - Some mistakes in the words need to be revised well - You have to mention the full name of the statistical analysis software and the company produced that software	
<u>Optional/General</u> comments		