

**Review Form 3**

Journal Name:	<a href="#">Asian Journal of Research in Biochemistry</a>
Manuscript Number:	Ms_AJRB_126531
Title of the Manuscript:	<b>EFFECT OF BIODIGESTER EFFLUENT ON CARBOHYDRATE METABOLIZING ENZYMES, GLUTATHIONE AND GLUTATHIONE-RELATED ENZYME IN THE AFRICAN CATFISH (Clarias Gariepinus)</b>
Type of the Article	Research article

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>This manuscript is important to the scientific community because it examines the toxicological effects of polybrominated diphenyl ethers (PDBEs) on African catfish (<i>Clarias gariepinus</i>), an economically significant species in aquaculture. By analyzing oxidative stress markers and metabolic enzyme activity, the study provides essential insights into how environmental contaminants affect fish health, which can inform sustainable aquaculture practices and pollutant regulation. The study's robust design and comprehensive methods make it a valuable contribution to aquatic toxicology research.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>Yes, it is, but with slight modification. The suggested title is: EFFECT OF BIODIGESTER EFFLUENT ON CARBOHYDRATE METABOLIZING ENZYMES AND OXIDATIVE STRESS MARKERS IN THE AFRICAN CATFISH (<i>Clarias gariepinus</i>)</p>	
<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p>The abstract is too long. Succinctly rewrite this area to include the research background (briefly), aim/purpose of the study, methodology, key result and conclusion.</p> <ol style="list-style-type: none"> <li>i. Purpose: Ensure that the purpose of the study is explicitly stated, highlighting the importance of investigating the effect of biodigester effluent on the selected enzymes.</li> <li>ii. Methods: Provide a concise overview of the experimental approach, including sample size, duration, and any specific techniques used for analysis (e.g., assays for enzyme activity).</li> <li>iii. Results: Include specific numerical data or statistical significance where applicable to strengthen the findings. This might involve mentioning how the effluent affected enzyme activity or glutathione levels quantitatively.</li> <li>iv. Conclusion: The conclusion should summarize the implications of the findings, particularly how they relate to aquaculture practices or environmental health.</li> </ol>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The manuscript appears to be well-structured, with appropriate subsections that facilitate understanding of the research. Emphasizing clarity, logical flow, and relevance throughout will strengthen the manuscript further. Inclusion of some other sub-section may be necessary under materials and methods.</p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>The manuscript titled "EFFECT OF BIODIGESTER EFFLUENT ON CARBOHYDRATE METABOLIZING ENZYMES, GLUTATHIONE AND GLUTATHIONE-RELATED ENZYME IN THE AFRICAN CATFISH (<i>Clarias Gariepinus</i>)" is scientifically robust due to its clear research question, systematic methodology, and reliable results. The study employs appropriate controls and replicates, enhancing the validity of its findings. By measuring relevant biochemical markers, the research effectively assesses the physiological effects of biodigester effluent on the African catfish, aligning with current standards in environmental and aquatic toxicology. Overall, the manuscript contributes valuable insights to the field through its rigorous experimental design and analysis.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>The references in the manuscript are relevant, diverse, and recent except few under methods that are outdated.</p>	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language and English quality of the article are generally suitable for scholarly communication, effectively conveying scientific concepts and findings. However, minor improvements in clarity and precision could enhance readability. A careful proofreading for grammar, punctuation, and syntax is recommended to ensure clear articulation of scientific arguments. Overall, with minor revisions, the manuscript meets the expected standards for scholarly publications.	
<b>Optional/General</b> comments	Nil. Other comments are within the attached manuscript.	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

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