

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Microbiology</a>
Manuscript Number:	Ms_JAMB_127571
Title of the Manuscript:	Investigating the Synergistic Effect of Temperature and pH Dynamics on Biogas Yield from lignocellulosic biomass codigested with cowdung.
Type of the Article	Original Research Article

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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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)
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.	The study is important for waste management and fits into circular economy, climate actions and is alternative energy production for household, power and transport applications	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is suitable	
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.	The study was on biogas production. There is no evidence of the measure of biogas composition. There is therefore the need to justify that the gas produced was biogas, particularly it is very significant to know the methane content of the gas yields. Since this is missing in the study it is reflected in the abstract.	
Are subsections and structure of the manuscript appropriate?	Quite appropriate and I have made few comments in the text which can be shared with the author.	
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.	<ol style="list-style-type: none"> <li>1. As stated above the absence of the measurement of the composition of the biogas leaves room to be uncertain if the gas mentioned qualifies as biogas.</li> <li>2. The thermometer reading, as presented reads only whole numbers, if correct. As a scientific paper it would have been more appropriate to keep readings to at least one decimal place.</li> <li>3. A graphical representation of the cumulative gas yield would have better explain the rate of biogas generation. Another one, say a scatter diagram of the temperature and pH would have been easy to discuss.</li> </ol>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	There may be the need to add on if the above comments are addressed.	
Minor REVISION comments	Language quality is very OK.	
Is the language/English quality of the article suitable for scholarly communications?		
<b>Optional/General</b> comments	I suggest attention is given to the comment I have made, especially on the composition of the methane and scatter plots to confirm the regression analysis made.	

#### **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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

#### **Reviewer Details:**

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