

Review Form 1.7

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_97483
Title of the Manuscript:	Potential of Biochar to Sequester Carbon and Mitigate Greenhouse Gas Emissions.
Type of the Article	Review paper

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:

(<https://www.journalcjast.com/index.php/CJAST/editorial-policy>)

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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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>Yes, it is. Climate change has become buzzword due to its impact on global community and threaten environment health and sustainability. The authors would like to highlight the biochar role in reducing GHG emissions, yet lack of mechanism on the biochar mitigating GHG was described in the content.</p> <p>Yes.</p> <p>Yes.</p> <p>Yes.</p> <p>Despite the article gives a quite good compilation about climate change but lack of comparison of multiple studies in order to provide insights on this context</p> <p>Most of the references are not sufficient and recent, especially for review paper.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>There are tremendous grammatical errors in the writing. The English and writing still need strong improve. Please check the manuscript and refine the language carefully.</p>	
<p>Optional/General comments</p>	<p>1. The specific comments can be referred in the manuscript.</p> <p>2. High pH of biochar could increase ammonia volatilization. The authors are required to get comparison of multiple studies in order to provide insights on this context.</p> <p>3. Besides the biochar condensed C and its recalcitrant characteristics help to sequester C, what are the other characteristics would help to sequester C too? How about its physical characteristics? In-depth study of literature on the biochar characteristics is needed to improve this review paper.</p> <p>4. Lack of information on mechanism in CO₂ emission from biochar-amended soil with N fertilization. Is the chemical /physical characteristics of biochar resulting in reduction of CO₂ emission?</p>	

PART 2:

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

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