

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_125902
Title of the Manuscript:	Dynamics of Soil Properties under Jhum Cultivation: A Review
Type of the Article	Review Article

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>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.</p>	<p>This manuscript is important to the scientific community because it addresses the critical issue of soil degradation caused by jhum cultivation, a traditional agricultural practice still widely used in many regions. By providing a comprehensive analysis of the impact on soil properties, it contributes to the understanding of how shifting cultivation affects soil fertility, erosion and biodiversity. The study is particularly valuable because it focuses on Arunachal Pradesh, a region with unique ecological challenges, and emphasizes the need to adopt sustainable practices. I appreciate this manuscript for its detailed analysis and its relevance to current discussions on sustainable land use and climate change adaptation.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the article, "Dynamics of Soil Properties under Jhum Cultivation: A Review," is appropriate as it accurately reflects the content and focus of the paper. It clearly indicates that the paper provides an analysis on the changes in soil properties caused by jhum cultivation. The title is concise, descriptive and relevant to scientific audiences interested in agriculture, soil science and environmental sustainability.</p>	
<p>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.</p>	<p>The abstract of the article is comprehensive as it effectively summarizes the main points of the analysis, including the impact of jhum cultivation on soil degradation, erosion and nutrient loss, particularly in the context of the Arunachal Pradesh region. It highlights the main issues related to soil fertility, carbon sequestration and shortening of agricultural fallow periods, as well as the need for sustainable agricultural practices.</p> <p>However, some improvements could be made:</p> <ul style="list-style-type: none"> • A brief mention of the specific methods or data sources used in the revised analysis would be useful to provide a clearer picture of how the conclusions were drawn. • Adding a sentence about the sustainable solutions or practices discussed in the article would provide a more complete summary of the study. <p>Overall, the summary is clear, but could be slightly expanded to incorporate these additional points to make it more complete.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes, the subsections and structure of the manuscript are appropriate. The manuscript follows a logical thread, beginning with an introduction that provides background and background information on jhum cultivation. It then proceeds to detailed sections covering climate and geography of the Arunachal Pradesh region, effects of jhum on soil moisture, physical and chemical properties of soil and biological indicators. The inclusion of sections on land use, vegetation composition and economic aspects of jhum cultivation adds depth to the analysis.</p> <p>Each subsection is clearly defined and contributes to the overall argument of the manuscript, making it easy for readers to follow. A suggestion for improvement might be to balance the length and depth of discussion in subsections so that no section seems too detailed or too brief compared to others.</p> <p>Overall, the structure is well organized and allows a comprehensive understanding of the dynamics of soil properties under jhum cultivation.</p>	
<p>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.</p>	<p>This manuscript is scientifically and technically sound as it is based on a comprehensive review of existing research on the effects of jhum cultivation on soil properties. It uses reliable data from a variety of sources, including peer-reviewed studies, to support its conclusions. The manuscript provides a balanced discussion of both the negative impacts of jhum cultivation, such as soil degradation and erosion, and the potential benefits, such as carbon sequestration during periods of agricultural dormancy. The analysis is systematic, covering multiple dimensions of soil health, and the conclusions are supported by empirical evidence, making the study scientifically credible.</p>	

Review Form 3

<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p>References in the manuscript appear to be sufficient and cover a wide range of studies relevant to jhum cultivation, soil degradation and environmental impact. The references cited include both seminal studies and more recent research, thus ensuring a comprehensive analysis of the subject. For example, studies from the past two decades are included as well as relevant older sources, providing a broad perspective on the issue.</p> <p>However, some of the references could be updated with more recent publications, especially regarding the impact of climate change on soil properties and sustainable agricultural practices in shifting cultivation. Inclusion of studies from the last 3-5 years could strengthen the relevance of the manuscript, especially through new information on soil conservation techniques and updated data on carbon sequestration and climate resilience.</p> <p>Suggestions for additional references might include recent studies on sustainable land use practices or advanced soil conservation strategies developed in similar regions.</p>	
<p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and quality of English in the article is generally appropriate for academic communication. The manuscript uses clear and precise language, essential to convey scientific concepts effectively. Technical terminology is appropriate for the topic at hand, and sentence and paragraph structure is coherent.</p>	
<p><u>Optional/General</u> comments</p>	<p>The manuscript provides a detailed and well-documented analysis of jhum cultivation and its impact on soil properties. The structure and content are well aligned with the objectives of the study, and the depth of analysis on soil degradation, moisture and fertility is commendable.</p> <p>However, the following suggestions could help improve the manuscript:</p> <ul style="list-style-type: none"> ✓ Incorporation of the latest studies and data, particularly regarding soil conservation techniques and climate change impacts, would enhance the relevance of the manuscript. ✓ Addition of additional figures, diagrams or graphs to illustrate key points such as the effects of jhum on soil properties would improve readability and make the manuscript more attractive. 	

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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