

[Review Form 3](#)

Book Name:	<a href="#">Current Research Progress in Agricultural Sciences</a>
Manuscript Number:	Ms_BPR_3907
Title of the Manuscript:	IMPACT OF CLIMATE CHANGE ON CROPPING PATTERN AND LAND USE PATTERN IN RAMANATHAPURAM DISTRICT: USING MARKOV CHAIN APPROACH
Type of the Article	Book chapter

**PART 1: 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>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript is significant for the scientific community as it provides valuable insights into the dynamic relationship between climate change, cropping patterns, and land use in a climate-sensitive region like Ramanathapuram district. By employing the Markov Chain Analysis, the study effectively quantifies the transitions and stability of various crops and land use categories over two decades, offering a robust methodological framework for similar analyses elsewhere. The findings highlight the impact of urbanization and agricultural intensification on land resource allocation, emphasizing the need for adaptive policies and sustainable land management strategies. This research contributes to understanding climate-resilient agricultural practices and supports evidence-based decision-making in land use planning.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title " <i>Impact of Climate Change on Cropping Pattern and Land Use Pattern in Ramanathapuram District: Using Markov Chain Approach</i> " is descriptive and reflects the manuscript's primary focus	
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 abstract is comprehensive but could be improved by emphasizing the context of the study and the practical implications of the findings. It should briefly mention why the Ramanathapuram district is significant for studying climate impacts and clarify the suitability of Markov Chain Analysis. The focus on results like declining forest retention and crop stability is good but could be more concise, avoiding repetition. Additionally, including specific policy recommendations or broader implications for sustainable land use planning would strengthen the abstract's relevance.	
Is the manuscript scientifically, correct? Please write here.	The manuscript appears to be scientifically correct based on the methodology and analysis presented. The use of Markov Chain Analysis to study transitions in cropping and land use patterns is appropriate, and the results are well-supported by data from credible sources like government publications. The manuscript effectively explains the transitional probability matrices and their implications for agricultural and land management strategies.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	

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<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The language of the manuscript is generally clear and conveys the intended meaning, but there are areas where the English quality can be improved to better suit scholarly communications. Specific suggestions include:</p> <ol style="list-style-type: none"> <li>1. <b>Clarity and Conciseness:</b> Some sentences are overly long and could be rewritten for better readability. For example, phrases like "The results reveal significant changes in both land use patterns and crop stability between two periods" could be simplified without losing meaning.</li> <li>2. <b>Grammar and Syntax:</b> Minor grammatical errors and awkward sentence structures are present. For instance, in the introduction, "Agriculture practice is one of the important sectors of Tamil Nadu state economy" could be revised to "Agriculture is an importance sector of Tamil Nadu's economy."</li> <li>3. <b>Scholarly Tone:</b> While the manuscript maintains a formal tone, there are sections where the language could be more precise. For example, instead of "this technological development influenced the farmers' behaviour," consider "technological advancements have significantly influenced farmers' decision-making processes."</li> <li>4. <b>Avoiding Repetition:</b> Repeated phrases and ideas, particularly in the abstract and results sections, should be consolidated for better flow.</li> <li>5. <b>Vocabulary:</b> Scholarly communications benefit from varied and precise vocabulary. For instance, replacing "the findings highlight urbanization pressures" with "the findings underscore the influence of urbanization on agricultural land dynamics" would enhance scholarly appeal.</li> </ol> <p><b>Overall Assessment:</b> The language is adequate for scholarly communication but requires minor revisions for clarity, grammar, and conciseness to fully meet academic standards. Proofreading by a native English speaker or a professional editor would further enhance quality.</p>	
<p><b>Optional/General</b> comments</p>		

**PART 2:**

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

**Reviewer Details:**

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