

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_121432
Title of the Manuscript:	Determinants for the adoption of Climate Resilient Agricultural Technologies in Andhra Pradesh, India.
Type of the Article	

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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>The article, "Determinants for the Adoption of Climate Resilient Agricultural Technologies in Andhra Pradesh, India" is important to the scientific community because it deals with climate change and its impact on agriculture in developing regions. The study employs a logistic regression model to determine the factors that affect farmer adoption of climate resilient technologies and this can offer guidance to policy makers and agricultural extension services based on empirical evidence. Results indicate that education, access to information about climate change and extension services are key intervention points necessary for enhancing the adoption of sustainable agricultural practices.</p> <p>This manuscript is important due to its methodological soundness as well as how it addresses current challenges faced in agriculture. With primary data collected from farmers located in areas prone to floods and droughts, this analysis deepens understanding by allowing identification of different factors responsible for various levels of technology adoption across diverse contexts. A wider discussion of these findings could have included a section on how these institutional arrangements can be adopted effectively so as to support farmers. It adds insight into the subject matter.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>"Factors Influencing Adoption of Climate Resilient Agricultural Technologies in Andhra Pradesh". This revised title maintains the core message while eliminating redundancy, making it more straightforward and appealing to the reader.</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 provides a solid overview of the study, including its objectives, methodology, key findings, and implications. However, it could benefit from a few adjustments to enhance its comprehensiveness and clarity.</p> <p>Suggestions for Improvement:</p> <p>Clarify the Research Context: The abstract could briefly mention the significance of climate change impacts on agriculture in Andhra Pradesh to provide context for the study's importance.</p> <p>Highlight Key Findings More Clearly: While the abstract mentions several factors influencing adoption, it could emphasize which factors were most significant in each district, perhaps by summarizing the results in a more structured format.</p> <p>Include Implications for Policy: Adding a sentence about the broader implications of the findings for policy or practice could strengthen the abstract, making it clear how the research contributes to addressing climate change challenges in agriculture.</p> <p>Define Acronyms: The term "CRA technologies" should be defined at least once in the abstract for clarity, especially for readers who may not be familiar with the terminology.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure of the manuscript appears to be appropriate and well-organized, facilitating a clear understanding of the research conducted.</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>The manuscript is scientifically robust and technically sound for several reasons.</p> <p>Firstly, it employs a well-established logistic regression model to analyze the determinants of climate-resilient agricultural technology adoption, which is appropriate for the binary outcome variable of adoption versus non-adoption. The use of primary data collected from a substantial sample of 300 farmers across two distinct districts—Srikakulam and Anantapur—enhances the reliability and validity of the findings, as it allows for a comprehensive comparison of factors</p>	

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	<p>influencing adoption in different climatic contexts.</p> <p>Secondly, the manuscript provides a thorough examination of various socioeconomic factors, such as education, farming experience, and access to climate information, that significantly influence adoption decisions. This multifaceted approach not only strengthens the findings but also aligns with existing literature, thereby situating the study within a broader scientific discourse on climate adaptation strategies.</p> <p>Lastly, the statistical analysis is complemented by descriptive statistics that offer insights into the characteristics of both adopters and non-adopters, which helps in understanding the context of the study. Overall, the combination of rigorous methodology, relevant data, and comprehensive analysis underscores the scientific correctness of the manuscript.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :</p>	<p>The references in the manuscript appear to be a mix of both recent and older sources, which is important for establishing a comprehensive background for the study. However, the reliance on some older studies, particularly those from the early 2000s, may limit the manuscript's relevance to current agricultural practices and climate change impacts.</p> <p>Suggestions for Additional References:</p> <ol style="list-style-type: none"> 1. Recent Studies on Climate Resilient Agriculture: Including more recent studies (from 2020 onwards) that focus on climate-resilient agricultural practices in India or similar contexts would strengthen the manuscript. For example: <ul style="list-style-type: none"> - "Climate Resilient Agriculture: A Review of Recent Advances and Future Directions" (2022) could provide updated insights. 2. Policy Frameworks: References to recent policy documents or frameworks related to climate change adaptation in agriculture would enhance the manuscript's relevance to current practices and policies. 3. Global Perspectives: Citing recent global studies or reviews on the adoption of agricultural technologies under climate change scenarios could provide a broader context and comparative analysis. For instance: <ul style="list-style-type: none"> - "Global Trends in Agricultural Technology Adoption: Implications for Climate Change" (2021). 4. Socioeconomic Factors: Studies that delve into the socioeconomic factors influencing technology adoption in agriculture, particularly in developing countries, would add depth. Recent articles from journals focusing on agricultural economics or rural development would be beneficial. 	
<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 English quality of the manuscript are generally suitable for scholarly communication, but there are areas that could be improved for clarity and professionalism.</p> <ul style="list-style-type: none"> • Grammar and Syntax: There are instances of awkward phrasing and grammatical errors that could be refined. For example, sentences could be restructured for better clarity and readability. • Consistency in Terminology: The manuscript occasionally switches between terms (e.g., "CRA technologies" and "climate-resilient agricultural technologies") without clear definition or consistency, which may confuse readers. • Use of Passive Voice: The manuscript frequently employs passive voice, which can make sentences less direct and harder to read. Active voice could enhance engagement and clarity. • Punctuation and Formatting: Attention to punctuation, particularly in complex sentences, would improve readability. Additionally, ensuring consistent formatting for tables and figures would enhance the overall presentation. 	
<p><u>Optional/General</u> comments</p>		

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PART 2:

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

Reviewer Details:

Name:	Manoj Kumar Das
Department, University & Country	Sri Sri University, India