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REVIEWER'S REPORT

Manuscript No.: IJAR- 56127

Title: Determinants of Factors Influencing Adoption of Climate Change Adaptation Practices (CCAPs) Among Farmers in Dutsin-Ma Agricultural Zone of Katsina State, Nigeria

Recommendation:

Accept as it is

Accept after minor revision

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: **ANAPANA GOPAL**

Reviewer's Comment for Publication.

General Comments

The manuscript investigates the determinants influencing the adoption of climate change adaptation practices (CCAPs) among farmers in the Dutsin-Ma Agricultural Zone of Katsina State, Nigeria. The topic is timely and policy-relevant, given the increasing vulnerability of smallholder farmers in semi-arid regions of sub-Saharan Africa to climate variability. The study employs a reasonably sized sample and applies both descriptive and econometric analyses to identify key drivers of adoption. Overall, the paper contributes empirical evidence to the growing literature on climate change adaptation in agriculture; however, it requires revisions to improve methodological consistency, analytical clarity, and presentation quality.

Content and Originality

The study addresses an important and well-established research area. While the geographical focus on the Dutsin-Ma Agricultural Zone provides useful localized insights, the conceptual contribution is largely incremental. Similar studies on determinants of climate change adaptation among Nigerian farmers already exist, and the manuscript does not sufficiently highlight what distinguishes this study from previous work beyond the study location. Strengthening the discussion on context-specific findings or linking results more explicitly to policy implications would improve originality.

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Technical Quality

The technical approach is generally appropriate, with a clear sampling strategy and the use of regression analysis to identify determinants of adoption. However, there are notable technical inconsistencies that require attention:

- The methodology section states the use of Tobit regression, whereas the results table reports Binary Logistic Regression, creating confusion about the actual model employed.
- The dependent variable is inconsistently described (participation in APPEALS programme versus adoption of CCAPs).
- Justification for the choice of econometric model is insufficient, particularly regarding why Tobit or logistic regression is suitable for the nature of the dependent variable.
- Diagnostic tests (e.g., multicollinearity, goodness-of-fit) are not reported. Addressing these issues is essential to strengthen the credibility of the empirical findings.

Language and Presentation

The manuscript is generally understandable but contains several grammatical errors, typographical mistakes, and inconsistencies in tense, spacing, and punctuation. Some sentences are overly long or repetitive, which affects clarity. Terminology such as CSAPs and CCAPs is used interchangeably without clear distinction. The paper would benefit from professional language editing to improve readability and ensure consistency in terminology and formatting.

Structure and Organization

The paper follows a conventional structure and is logically organized. However, improvements are needed:

- The Introduction is lengthy and contains repetition of ideas that could be condensed.
- Some tables are inconsistently numbered (e.g., Table 4.1 vs. Table 2), and captions should be standardized.
- The Results and Discussion sections are partially merged; deeper interpretation of results in relation to existing literature would strengthen the discussion.
- The Conclusion reiterates findings but could be more concise and forward-looking in terms of policy and research implications.

References and Citations

The manuscript cites a wide range of relevant literature, including recent studies. However:

- Several references are conference proceedings, which may limit the academic rigor depending on the target journal.
- Citation formatting is inconsistent, and some references contain typographical errors.
- Greater inclusion of peer-reviewed international journal articles would enhance the scholarly strength of the paper. A careful review and standardization of references according to journal guidelines is recommended.

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Overall Recommendation

The manuscript presents useful empirical findings relevant to climate change adaptation policy and agricultural development. However, methodological inconsistencies, limited originality, and language issues reduce its current suitability for publication. With substantial revisions—particularly in clarifying the econometric approach, improving analytical rigor, and refining presentation—the paper has the potential to make a meaningful contribution.

Final Decision:

Minor to moderate Revision Required

The authors should address methodological inconsistencies, strengthen the discussion, improve language quality, and ensure clarity and coherence throughout the manuscript before it can be reconsidered for publication.