

## REVIEWER'S REPORT

Manuscript No.: IJAR-52217

Date: 13-06-2025

**Title: Impact of Climate Change on farmers Physical and mental well-being: An investigation from Rajshahi District in Bangladesh**

### Recommendation:

Accept as it is.....**YES**.....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

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

**Reviewer's Name:** Tahir Ahmad

**Reviewer's Decision about Paper:** Recommended for Publication.

**Comments** (*Use additional pages, if required*)

### Reviewer's Comment / Report

#### Abstract Evaluation:

The abstract provides a clear and well-structured overview of the study, including its objective, methodology, key findings, and policy implications. The use of empirical data supported by statistical methods such as Chi-Square and logistic regression lends robustness to the conclusions. The clarity in presenting specific results (e.g., heat stress at 31.5%, waterborne illnesses at 22%) strengthens the empirical grounding. The abstract efficiently conveys the urgency of integrating climate adaptation into health systems, especially in vulnerable regions like Rajshahi. It effectively bridges the gap between environmental science and public health policy.

#### Keywords Evaluation:

The keywords are relevant and encompass both methodological and thematic elements of the study. Terms like *climate change*, *logistic regression*, and *physical and mental health* reflect the analytical framework and focus area of the research.

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**Introduction Evaluation:**

The introduction provides a comprehensive background on the causes and consequences of climate change, specifically emphasizing its impacts on vulnerable populations such as farmers. It contextualizes the issue within both global and local frames by citing key authorities like the IPCC, WHO, and relevant academic literature. The section integrates environmental science with public health and socio-economic dynamics, presenting a multidimensional view of the challenges faced by farmers. The mention of both physical and mental health effects—including vector-borne diseases, salinity-induced disorders, and psychosocial stress—adds analytical richness. Special attention to gendered impacts and social capital disruption adds important nuance, particularly concerning women's experiences.

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**Methodological Clarity:**

The study employs a Simple Random Sampling (SRS) technique, which is clearly mentioned in the abstract. The analytical tools used—frequency distribution, Chi-Square tests, and logistic regression—are appropriate for assessing health-related outcomes in relation to environmental variables. The statistical approach enhances the credibility and depth of the findings.

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**Findings and Interpretation:**

The findings are systematically presented, with specific attention given to the prevalence of various health conditions. The statistical significance of climate-related variables reinforces the argument that climate change directly affects health outcomes among farmers. The acknowledgment that some variables (e.g., healthcare access) did not show statistical significance illustrates a balanced and objective analysis.

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**Contextual and Policy Relevance:**

The paper is situated within a critical socio-environmental context—rural Bangladesh—where climate vulnerability and agricultural dependence intersect. The policy recommendations, such as establishing early warning systems and enhancing healthcare access, align with the broader goals of climate resilience and health equity. The emphasis on integrating adaptation strategies into public health systems highlights the paper's applied relevance and its potential contribution to policy discourse.

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**Language and Style:**

The language is academically appropriate, concise, and free of ambiguity. The terminology is accessible to both scientific and policy-oriented audiences. The writing is coherent and transitions smoothly between themes.

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**Overall Assessment:**

This is a well-executed and timely study that brings empirical evidence to bear on one of the most pressing intersections of climate change and public health. It offers strong statistical backing, clear

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theoretical framing, and actionable policy insights. The focus on both physical and mental health, combined with gendered and socio-economic perspectives, makes this work comprehensive and impactful.