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REVIEWER'S REPORT

Manuscript No.: IJAR-55267 Date: 17.12.2025

Title: Comparative Impact of the Climate-Adaptive Sorjan System on Farm Economics and Resilience in Coastal Bangladesh

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** **Date:** 17.12.2025

Reviewer's Comment for Publication.

General Comments

The manuscript addresses a highly relevant and timely issue—climate-resilient agriculture in coastal Bangladesh—by evaluating the Climate-Adaptive Sorjan System through a comparative, field-based approach. The topic is important given increasing salinity intrusion, waterlogging, and livelihood vulnerability in coastal agro-ecosystems. The study integrates economic, agronomic, ecological, and social dimensions, which is a major strength. The manuscript provides rich empirical insights and policy-relevant recommendations. However, it requires substantial refinement in structure, language, and methodological clarity to meet the standards of an international peer-reviewed journal.

Content and Originality

The manuscript makes a meaningful contribution by empirically comparing adaptive Sorjan farming with conventional systems using real farm-level data. While Sorjan farming itself is not novel, the study's originality lies in its integrated assessment of farm economics, climate resilience, ecological benefits, and social outcomes (youth and women's participation). The documentation of reduced chemical input use, integrated aquaculture benefits, and diversification-driven risk reduction adds practical value. However, the manuscript sometimes reads more like a project evaluation report than an academic research article. Strengthening the theoretical framing and clearly positioning the study within climate-smart agriculture and resilience literature would enhance its scholarly originality.

Technical Quality

The quasi-experimental mixed-methods design is appropriate for evaluating real-world agricultural interventions. The use of treatment and control groups from the same geographic context strengthens internal validity. Data collection through IDIs, KIIs, and FGDs is comprehensive, and triangulation is a notable strength.

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Nevertheless, some technical limitations should be addressed:

- The sample size (27 treatment and 10 control farmers) is relatively small and should be explicitly acknowledged as a limitation.
- Statistical analysis is largely descriptive; while T-tests are mentioned, test statistics and significance levels are not consistently reported.
- Some numerical inconsistencies and unclear units (e.g., fish return "1 kg × 45,000 BDT") require correction.
- The basis for selecting 160 decimals of land for financial comparison should be justified.
- Greater clarity is needed regarding how resilience and soil health indicators were measured (perception-based vs. measured).

Overall, the methodology is appropriate but requires clearer articulation and more rigorous statistical reporting.

Language and Presentation

The manuscript contains valuable content, but the language quality needs substantial improvement. There are frequent grammatical errors, typographical mistakes, inconsistent capitalization, spacing issues, and abrupt line breaks. Some sections are overly verbose, while others lack academic precision. Terms such as "unequivocal evidence" and "beacon of climate-smart agriculture" should be moderated to maintain scientific neutrality. A thorough professional language edit is strongly recommended to improve readability, coherence, and academic tone.

Structure and Organization

The manuscript follows a broadly logical structure; however, organization needs improvement:

- The Abstract is not clearly separated and should be more concise, structured, and quantitative.
- The Introduction is informative but overly long and could be streamlined.
- Results, Discussion, and comparative analysis are intermixed; clearer separation would enhance clarity.
- Tables are informative but need consistent formatting, clearer captions, and proper referencing in the text.
- The Discussion section should more explicitly link findings to existing literature rather than restating results.

Improving section coherence and tightening redundancy would significantly strengthen the manuscript.

References and Citations

The references are relevant, current, and appropriate for the topic, including key sources such as IPCC, World Bank, IFPRI, and peer-reviewed journals. The literature review demonstrates good engagement with regional and global studies. However:

- Citation formatting is inconsistent and should be standardized according to journal guidelines.
- Some references lack complete page ranges or show minor typographical issues.
- More recent peer-reviewed studies on climate-smart and agroecological systems could further strengthen the discussion.

Overall, the reference base is adequate but needs formatting consistency.

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Overall Recommendation
The manuscript presents strong empirical evidence and policy-relevant insights into climate-adaptive agriculture in coastal Bangladesh. With improvements in language quality, methodological clarity, statistical rigor, and academic framing, it has good potential for publication.

Final Decision
Minor Revision Required
The manuscript should be reconsidered after substantial revisions addressing language editing, structural refinement, clearer methodological explanation, and improved statistical reporting.