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REVIEWER'S REPORT

Manuscript No.: **IJAR-52935** Date: 24-07-2025

Title: Diversity of insect' s pollinators of Cowpea, Vigna unguiculata L. Walp small white variety seed (Fabaceae) and assessment of its impact on yields at Malang (Cameroon)

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 Name: Tahir Ahmad

Reviewer's Comment for Publication.

General Overview:

The manuscript presents a field-based investigation into the diversity and impact of insect pollinators on the reproductive success and yield of *Vigna unguiculata* (cowpea) in Malang, Cameroon. The research is timely and relevant, given the importance of cowpea in food security and the critical role of pollinators in agricultural productivity. The study design captures key pollination parameters and successfully correlates insect foraging behavior with yield components such as fruiting rate, seed count, and seed quality.

Abstract Review:

The abstract succinctly communicates the study's objectives, methodology, and key findings. It clearly outlines the experimental treatments and presents the results in terms of quantitative comparisons among the different treatments. The statistical outcomes—fruiting rates, seed number per pod, and normal seed percentages—are effectively highlighted, demonstrating the positive influence of insect pollination. The abstract maintains a logical structure and offers a clear picture of the study's significance.

Résumé (French Abstract) Review:

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The French abstract is a faithful translation of the English version and maintains consistency in content, structure, and terminology. It effectively caters to the bilingual academic audience and ensures accessibility of the study to French-speaking researchers in the region. The quantitative data is consistently represented, and the conclusion about the significant impact of flower-visiting insects is clearly articulated.

Scientific and Methodological Content:

- The experimental setup, involving three distinct treatments based on flower exposure to insect activity, is methodologically sound and appropriately controlled.
- A total of 360 flowers were used, providing a substantial sample size for comparative analysis.
- The study clearly distinguishes between protected, unprotected, and selectively re-exposed flower groups, ensuring a nuanced understanding of insect pollination's contribution.
- The behavioral observations and quantitative yield parameters are well-aligned with the research goals.
- The findings that insect pollination increases fruiting rate, seed quantity, and seed quality are well-supported by the data.

Data Presentation and Interpretation:

The presentation of numerical data in the abstract (fruiting rate, number of seeds per pod, percentage of normal seeds) is clear and comparative across treatments T1, T2, and T3. The results are presented in a format that is easy to interpret and point directly to the beneficial effects of insect pollinators on crop yield. The differences among treatments provide a compelling case for the role of pollinators in cowpea productivity.

Language and Clarity:

The manuscript is written in clear and accessible English, with technical terminology used appropriately. The French version of the abstract maintains the same level of clarity and precision. Scientific language is consistently used, and the flow of information is logical and well-structured.

Keywords:

The keywords—*Vigna unguiculata*, flowers, pollination, insects, Malang—are appropriate and reflect the core components of the study, aiding in academic discoverability.

Conclusion of Review:

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This study offers valuable empirical evidence on the role of insect pollinators in enhancing cowpea yield in a real-world agricultural setting. It contributes significantly to both entomological and agronomic literature by highlighting the ecological services provided by pollinators in crop production. The experimental approach, results, and bilingual accessibility underscore the manuscript's relevance and scientific merit.