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REVIEWER'S REPORT

Manuscript No.: IJAR-57302

Title: DESIGN METHODOLOGY FOR GREEN POULTRY HOUSES IN THE SAHELIAN ZONE.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

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

well-prepared and suitable for publication

Reviewer's ID: JPR- JPR-115

Detailed Reviewer's Report

The manuscript titled “*Design Methodology for Green Poultry Houses in the Sahelian Zone*” presents a **well-structured and highly relevant study** addressing the critical issue of heat stress in poultry production under harsh climatic conditions. The topic is timely and contributes significantly to the fields of **sustainable agriculture and climate-resilient infrastructure**.

The authors have successfully developed a **comprehensive and systematic design methodology** by integrating ecological design principles with advanced **multi-criteria decision-making techniques (FAHP and TOPSIS)**. This combination enhances the scientific rigour and practical applicability of the study.

One of the major strengths of the paper is the **clear identification and prioritisation of design criteria and sub-criteria**, which provides valuable guidance for poultry house designers and stakeholders in the Sahelian region. The emphasis on **health and indoor environmental quality as the most significant criterion** is particularly insightful and well justified.

The inclusion of a **case study of a 3000-bird poultry house** further strengthens the manuscript by demonstrating the real-world applicability of the proposed methodology. Additionally, the consideration of **eco-friendly materials, renewable energy integration, and natural ventilation strategies** reflects a strong commitment to sustainability.

Overall, the manuscript offers **practical, scientifically grounded solutions** that can significantly improve poultry productivity and welfare in hot climates. It is a **valuable contribution to the literature** and has strong potential for application in similar agro-climatic regions.

Recommendation

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REVIEWER'S REPORT

The manuscript is **well-prepared and suitable for publication**, with only minor revisions required for language and formatting improvements.