



REVIEWER'S REPORT

Manuscript No.: IJAR-50399

Date: 26-02-2025

Title: IMPACT OF SUNLIGHT ON THE ORIENTATION OF BAYA WEAVERBIRD NESTS.

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: Mir Tanveer

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

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

Abstract Review: The abstract provides a well-structured and concise summary of the study. It effectively introduces the research focus on the impact of light direction on nest orientation. The study's methodology, including the observation of 455 nests across four zones, is clearly presented. The results highlight the predominance of eastward nest orientation, supporting the hypothesis that sunlight influences nesting preferences. The inclusion of statistical values enhances the credibility of the findings.

Introduction Review: The introduction offers a comprehensive overview of the Baya weaverbird's nesting behavior and the ecological significance of nest orientation. It integrates relevant literature, reinforcing the study's rationale. The description of thermal conditions affecting nest orientation is well-supported by previous research. The explanation of how birds optimize nest positioning for thermal regulation is insightful and aligns with established ecological theories. The review of previous studies adds depth to the background, demonstrating the importance of the research question.

Statement of the Problem and Objectives Review: The research problem is well-articulated, emphasizing the role of sunlight in nest orientation. The study objectives are clearly stated and align with the research focus, ensuring a well-defined scope.

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Methodology Review: The methodology section is well-detailed and systematically explains the research design. The use of direct observation techniques and standardized equipment, such as binoculars and GPS, strengthens the study's reliability. The description of the study area, including Shivamogga's climatic conditions, provides essential context for understanding the nesting environment. The method of data collection and classification of nests into complete, incomplete, and abnormal categories is logical and well-executed.

Results Review: The results section presents a clear analysis of nest orientation trends. The data indicating a preference for eastward nesting is well-supported by statistical values. The comparison of different nesting regions effectively highlights significant variations in nesting activity. The discussion of variability across zones, with east and northeast regions displaying higher nest counts, is well-explained. The low occurrence of incomplete and abnormal nests is also noted, reinforcing the stability of nesting preferences.

Discussion Review: The discussion effectively relates the findings to existing literature, providing a strong theoretical foundation. The explanation of how nest orientation optimizes thermal conditions is well-articulated. The comparison with previous studies on nest positioning in different latitudes adds valuable context. The inclusion of multiple references enhances the discussion's depth and credibility.

Conclusion Review: The conclusion succinctly summarizes the key findings, emphasizing the correlation between sunlight direction and nest orientation. It reinforces the significance of eastward orientation in maintaining optimal conditions for reproductive success.

Overall Review: The study is well-structured and presents a compelling analysis of how sunlight influences the orientation of Baya weaverbird nests. The methodology is sound, and the results are supported by robust statistical analysis. The discussion effectively integrates previous research, strengthening the study's conclusions. The research contributes valuable insights into avian nesting behavior and ecological adaptation.