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REVIEWER'S REPORT

Manuscript No.: *IJAR-57540*

Title: Evaluation of egg yolk quality in laying hens fed diets based on *Hibiscus sabdariffa* flowers.

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		

Reviewer's ID: **JPR-115**
Dr Thirunahari Ugandhar

Detailed Reviewer's Report

- The manuscript presents an interesting study on the use of Hibiscus sabdariffa flowers as a natural pigment source for improving egg yolk quality in laying hens. The topic is relevant for sustainable poultry production and reduction of synthetic pigment use.
- The abstract is informative; however, grammatical corrections and sentence restructuring are needed for better clarity and readability.
- The introduction adequately explains the importance of yolk pigmentation, but recent references on natural pigments in poultry nutrition should be added to strengthen the background.
- Scientific names such as Hibiscus sabdariffa should be italicized consistently throughout the manuscript.
- The methodology is generally clear, but details regarding the synthetic pigment composition used in RJ treatment should be included.
- The preparation method of the aqueous extract requires more explanation, including filtration procedure and frequency of preparation during the experiment.
- Statistical analysis section should clearly mention the software used for data analysis.
- In Tables 2 and 3, units and superscripts should be formatted uniformly. Some spacing and alignment corrections are necessary.

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- Results indicate that RF treatment significantly improved yolk color and feed efficiency, which is an important finding supporting the use of natural pigments.
- The discussion section should compare the obtained yolk color scores more extensively with previous studies using other natural pigment sources such as marigold, paprika, and algae.
- Economic analysis is useful; however, inclusion of a detailed cost-benefit comparison table would improve interpretation.
- Some grammatical and typographical errors are present throughout the manuscript and require careful language editing.
- The conclusion is relevant and supported by the results, emphasizing the potential of Hibiscus sabdariffa flowers as a sustainable natural pigment source in poultry diets.
- Overall, the manuscript has scientific value and may be considered for publication after minor to moderate revisions.