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REVIEWER'S REPORT

Manuscript No.: **IJAR-52757** Date: 14-07-2025

Title: Profile fatty acid of Chironomidae larvae produced from rabbit manures fish farms in the Guinean forested region

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: Tahir Ahmad

Reviewer's Comment for Publication.

The article titled *"Profile Fatty Acid of Chironomidae Larvae Produced from Rabbit Manures Fish Farms in the Guinean Forested Region"* presents an ecologically and nutritionally relevant study that bridges sustainable aquaculture practices with the optimization of live feed quality. The research underscores the potential of Chironomidae larvae, reared on rabbit manure, as an environmentally friendly, nutritionally rich live feed for fry rearing, contributing to cost-effective aquaculture in the Guinean forested region.

The abstract effectively summarizes the research objective, highlighting the nutritional richness of Chironomidae larvae in fatty acids and positioning them as a viable alternative to traditional feed. The ecological and economic implications are clearly emphasized, particularly in relation to climate change resilience and environmental sustainability in aquaculture.

The keywords chosen—Aquaculture, Chironomidae Larvae, Rabbit Manure, Fatty Acids—accurately reflect the thematic core of the study and align well with the scientific focus.

The introduction provides a clear rationale for the research, contextualizing the challenges faced by aquaculture hatcheries in Africa, especially regarding the limitations of dry feed availability and affordability. The reference to live feeds as a superior alternative is well-supported by literature, reinforcing the functional importance of amino acids and unsaturated fatty acids in larval fish nutrition. The inclusion of multiple scholarly references adds credibility and connects the study to broader scientific discourse on aquatic nutrition and energy transfer in freshwater ecosystems.

The reference to benthic macroinvertebrates as key components of freshwater food webs further validates the choice of Chironomidae larvae as a subject of study. The link between fatty acid enrichment and both

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fish and human nutritional needs extends the study's relevance beyond aquaculture to food security and public health.

Overall, the article contributes meaningfully to the fields of aquaculture nutrition and sustainable farming practices. It showcases a practical and locally adaptable method for improving fry nutrition while promoting waste reuse and ecological sustainability. The study is timely, regionally grounded, and globally significant in its emphasis on low-cost, nutrient-rich live feed alternatives for fish farming in climate-vulnerable regions.