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REVIEWER'S REPORT

Manuscript No.: IJAR-57239

Title: Use of zooplankton to diagnose the ecological quality of the waters of the Banco River (South-East of Ivory Coast).

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	Excellent			
Significance	Excellent			

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- Zooplankton are small, often microscopic, heterotrophic animals that drift in aquatic environments (oceans, bays, lakes) and are generally weak swimmers. They serve as a crucial food source for larger marine life, acting as the primary link between phytoplankton (producers) and higher trophic levels. Common examples include copepods, krill, and various larvae.**
- The Blanco river is an 87-mile-long spring-fed river in the Texas Hill Country, rising in Kendall County and flowing through Blanco and Hays Counties to join the San Marcos River. Known for its clear, shallow waters, limestone banks, and scenic beauty, it is a popular spot for recreation such as tubing, swimming, and fishing.**
- Water quality is a measure of the chemical, physical, and biological characteristics of water, usually in relation to its suitability for a specific use, such as drinking, swimming, or supporting aquatic ecosystems. It defines how clean or polluted water is based on parameters like bacteria, chemical concentration, temperature, and turbidity.**

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- 4. Eutrophication is the over-enrichment of water bodies (lakes, rivers, coastal waters) with nutrients, primarily nitrogen and phosphorus, which triggers excessive growth of algae and plants. This process leads to algal blooms, reduced water quality, oxygen depletion (hypoxia), and the creation of "dead zones" where aquatic life cannot survive.**
- 5. Côte d'Ivoire (Ivory Coast) is a sovereign state in West Africa bordering the Gulf of Guinea, known as the world's top exporter of cocoa and a major producer of cashew nuts. With a population of over 26 million, it has a diverse landscape ranging from coastal lagoons to northern savannas, with French as the official language.**
- 6. Zooplankton are highly sensitive, rapid-response bioindicators used to diagnose aquatic ecological quality, including eutrophication, pollution, and climate change. They occupy a key intermediary position in the food web, making their community structure, biomass, and diversity effective indicators of overall ecosystem health, particularly in lakes and coastal waters.**
- 7. Key words are good.**
- 8. Significant points are given good.**
- 9. Result part is excellent with tables and graphs.**
- 10. Summary points only can be included.**
- 11. After a small changes good to publish in your journal.**