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REVIEWER'S REPORT

Manuscript No.: **IJAR-53182** Date: 09-08-2025

Title: CONTROL OF FOUL-SMELLING WATER: CAUSES, IMPACTS, AND COMPREHENSIVE REMEDIATION STRATEGIES

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 Name: Mir Tanveer

Reviewer's Comment for Publication.

Abstract Evaluation:
The abstract effectively summarizes the paper's scope, methodology, and key findings. It clearly identifies the primary odor-causing agents—such as hydrogen sulfide, microbial activity, and organic decay—and categorizes the content into well-defined sections: causes, health and environmental impacts, materials and methods, results, discussion, and conclusion. The inclusion of a systematic review approach spanning 2000 to 2025 adds methodological credibility. The discussion of remediation strategies—chemical oxidation, aeration, filtration, and preventive measures—balances technical detail with practical application. The conclusion's emphasis on the urgency of solutions in light of climate-driven microbial growth gives the work contemporary relevance. The abstract also indicates the integration of case studies and emerging technologies, enhancing its applied value for professionals.

Keywords Evaluation:
The keywords—*Foul-smelling water, Hydrogen sulfide, Sulfur bacteria, Odor remediation, Water treatment, Health impacts, Case studies*—are precise, descriptive, and relevant to the paper's themes, aiding effective indexing.

Introduction Evaluation:
The introduction provides a clear rationale for the study by linking unpleasant water odors with both user dissatisfaction and potential health hazards. It identifies the principal odor sources with specific examples, such as hydrogen sulfide, geosmin, MIB, and chlorine residues, supported by references. The broader environmental context—particularly the role of climate change in exacerbating microbial growth—is appropriately integrated. The scope of the review is articulated through its interdisciplinary approach, drawing from environmental chemistry, microbiology, and engineering. The stated objectives—to clarify causes, assess impacts, and evaluate solutions using evidence—are explicit and well aligned with the paper's thematic structure.

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Overall Assessment:
The manuscript presents a coherent and methodically structured foundation for a systematic review. The combination of clear thematic segmentation, interdisciplinary scope, and applied relevance positions it as a valuable resource for water quality professionals. The alignment between the abstract, keywords, and introduction demonstrates consistency, while the focus on both scientific and practical dimensions enhances its potential contribution to environmental management literature.