

## REVIEWER'S REPORT

Manuscript No.: IJAR-50622

Date: 14-03-2025

**Title: River Management and Restoration: A Strategic Approach**

### 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:** Tahir Ahmad

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

**Comments** (*Use additional pages, if required*)

### **Reviewer's Comment / Report**

This chapter provides a comprehensive and insightful overview of river management and restoration, emphasizing the urgency of addressing river degradation and the ecological consequences associated with it. The abstract effectively sets the tone, highlighting the significance of river ecosystems and the necessity for their restoration to maintain biodiversity and ecological balance. The emphasis on stabilizing and enhancing river functions ensures that the broader scope of river restoration is well-captured.

The introduction presents a strong contextual foundation, particularly in the Indian scenario, detailing the multifaceted roles of rivers in agriculture, water supply, hydroelectric power, and biodiversity conservation. The inclusion of global concerns such as climate change, urbanization, and anthropogenic pressures further strengthens the discussion by illustrating the extensive impact of human activities on river ecosystems. The references to habitat

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degradation, biodiversity loss, and water security challenges contribute to the urgency and relevance of river restoration as a pressing global concern.

The section on river restoration and management presents a well-structured discussion of restoration techniques, management strategies, and ecological interventions. The detailed explanation of river degradation processes and the role of ecological restoration technologies (ERTs) in improving biodiversity and habitat recovery adds substantial depth to the narrative. The discussion of predictive hydro-ecological relationships aligns with contemporary scientific approaches, making the content highly relevant for researchers and policymakers.

The chapter effectively incorporates theoretical and applied aspects of river restoration, citing key studies and literature to support its claims. The distinction between reconnection and reconfiguration efforts, as outlined by Bernhardt and Palmer (2011), provides a nuanced understanding of restoration methodologies. The classification of river restoration measures according to ecosystem elements further enhances the clarity of the discussion.

Overall, this chapter is well-researched and presents a detailed examination of river management and restoration strategies. The structured presentation of concepts, supported by scientific references, makes it a valuable resource for environmental scientists, policymakers, and conservationists working toward sustainable river management.