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| Book Name: | [**Current Research Progress in Agricultural Sciences**](https://www.bookpi.org/bookstore/product/current-research-progress-in-agricultural-sciences-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4697** |
| Title of the Manuscript: | **CLIMATE RESILIENCE IN TANK IRRIGATION: ASSESSING RISKS AND ADAPTIVE STRATEGIES FOR SUSTAINABLE WATER MANAGEMENT** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript is highly relevant to the scientific community, particularly in the context of climate change and water management. It addresses the vulnerabilities of tank irrigation systems and offers valuable insights into adaptive strategies that can ensure their sustainability. The study provides a comprehensive review of climate impacts on water availability, ecosystem conservation, and agricultural productivity, which are critical for ensuring food security. It also discusses how various regions, particularly those relying on traditional water systems, can enhance resilience through innovative practices and collaborative efforts.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is mostly suitable, but it can be made more concise. A more focused title could be: "Enhancing Climate Resilience in Tank Irrigation Systems: Challenges and Adaptive Strategies."** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract is mostly comprehensive, but it could be more precise in some areas. The mention of "mountains in which extreme slopes and precipitation designs intensify soil disintegration" could be simplified or clarified for better understanding. I suggest tightening the language for clarity:**   * **Remove vague phrases like "like mountains in which..." and rephrase for better flow.** * **Emphasize the core findings more clearly, including specific strategies for enhancing resilience.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is scientifically correct. It provides a thorough review of the challenges facing tank irrigation systems under climate change and suggests scientifically backed adaptation strategies. The use of secondary data, case studies, and references to established literature supports the reliability of the conclusions drawn.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references are sufficient and mostly up-to-date. However, the manuscript could benefit from including more recent studies (2023-2025) to strengthen the relevance and currency of the research. You might want to add more studies related to technological innovations or new policy interventions on climate resilience in agriculture.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is mostly suitable, but there are some areas where clarity can be improved. Some sentences are long or overly complex, which may make them harder to follow. Simplifying the structure in certain sections would improve readability and clarity. |  |
| Optional/General comments | This manuscript provides a valuable review of the challenges and adaptation strategies for tank irrigation systems under climate change. It effectively covers the key issues like changing precipitation, soil erosion, and governance challenges, and presents practical solutions such as rainwater harvesting and solar-powered pumps.  However, some sections, especially the abstract and introduction, could be clearer, and including more recent references would strengthen the manuscript. Overall, it is a solid contribution to the field with minor revisions needed for clarity and relevance. |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** |  |  |

**Reviewers:**

**Shivam Satyawan Madrewar, MPKV Rahuri, India**