Review Form 1.7

Journal Name:	**Asian Journal of Food Research and Nutrition**
Manuscript Number:	**Ms_AJFRN_116395**
Title of the Manuscript:	**Evaluation of Growth, Yield and Proximate Composition of Food Industrial Wastewater-irrigated Vegetables**
Type of the Article	**Original Research Article**

Review Form 1.7

PART 1: Review Comments

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**Yes.** Wastewater reuse can be a sustainable practice, reducing reliance on freshwater resources for irrigation, especially in water-scarce regions. The nutrients present in wastewater can act as a fertilizer, potentially reducing the need for additional chemical fertilizers and lowering agricultural costs. Increased yield due to wastewater irrigation can lead to higher income for farmers, especially in areas with limited access to freshwater and fertilizers**.** Overall, evaluating growth, yield, and proximate composition is a valuable initial step in assessing the feasibility and potential benefits of using food industrial wastewater for irrigation. It provides data to inform decisions about wastewater management, crop selection, and the need for further investigation to ensure safe and sustainable agricultural practices. **Yes.** **Yes.** **Yes.** **Yes.** **Yes** **Yes**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	Yes. The English quality of the article is suitable for scholarly communications.	
Optional/General comments	Few points, the authors need to address in the manuscript to enhance the quality of the research article and to increase the interest of readers. ➢ Irrigating vegetables with food industrial wastewater can have a side effect on growth, yield, and composition. 1. High salt content in wastewater can harm plants by affecting their ability to absorb water. 2. Industrial wastewater may contain heavy metals like cadmium or lead. These can accumulate in vegetables and pose health risks to consumers. 3. Untreated wastewater may harbor harmful bacteria or viruses that can contaminate vegetables. ➢ The impact of food industrial wastewater irrigation on vegetables depends on several factors. 1. The specific wastewater composition will vary depending on the food processing involved (dairy, meat, etc.). 2. Different vegetables have varying tolerance levels to salinity and other contaminants. ➢ The research prioritizes vegetable production without fully considering the environmental and health risks. It doesn't assess the long-term impact on soil health or potential contamination of	

	surrounding ecosystems. Safety concern not fully addressed. For eg., Accumulation of heavy metal, Pathogen testing, etc., ➢ Moreover Wastewater composition and soil characteristics can vary significantly between locations. Results from one study might not be applicable to other regions with different wastewater sources or soil types. ➢ Different vegetables have varying tolerances to contaminants. An evaluation on one type of vegetable might not be representative of others. ➢ Wastewater from some food processing facilities, particularly those involving animal agriculture, might contain antibiotics. This can contribute to the development of antibiotic-resistant bacteria in the soil. Therefore, a more comprehensive evaluation should consider environmental and health risks alongside productivity measures. Based on the above suggestions, the authors may modify the manuscript with suitable references.	

PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with 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?	*(If yes, Kindly please write down the ethical issues here in details)*	

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