



SDI Review Form 1.6

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_41558
Title of the Manuscript:	Evaluation of Quality of Irrigation Water in Major Water Sources in Ondo and Osun State, Nigeria
Type of the Article	Original research paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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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	Authors tried to evaluate the water quality of major water sources of Nigeria for agricultural uses, and for that, they performed some chemical analysis and using different indices, they draw up their conclusion. Overall, the objectives and methodology they used is very good and well accepted issues. But, some points I raise, which I believe may improve the quality of article for wide reader are: 1. The title of the paper could re-write as: 'Evaluation of irrigation water quality from major water sources in Ondo and Osun state, Nigeria'. 2. The objectives and research hypothesis is not clear. It is the common trend of a research article, author first develop the importance/problems of this work, and then your aims/objectives or your contribution. I think, the last para of the introduction should revise. 3. In page no. 3, section 2.2 authors claimed they tested microbial effect, and heavy metals like (Fe, Pb, Cr, Cu, Ni, Zn, Mn). But, no results and analysis is included in the whole paper. I think these should erase, or provide the detail information's regarding analysis procedure and results and their effects on water quality. 4. Authors used SAR, RSC and KR for irrigation water quality analysis. For these indices only major ions is enough, but it should clearly describe about the results of such trace elements like Fe, Pb, Cr, Cu, Ni, Zn and Mn, because they are micronutrients and have role in soil function and plants growth. 5. In section 2.3, author telling about 'parameters were determined using laboratory equipment'. It should better, to mention about the detail information and procedure of analysis. For example, TDS is determine by TDS meter (Model: ABC, Country/origin), Ions by ion chromatography (IC) (Model:.....origin). 6. In result and discussion section, authors used, some water quality evaluation indices. It would be helpful for reader if use some visual presentation i.e., Wilcox diagram. Please download the paper, for your better understanding: https://link.springer.com/article/10.1007/s13201-017-0533-5 7. Some others indices and water quality classification you will find the Table 4 of the following paper: https://link.springer.com/article/10.1007/s13201-017-0533-5, and Table 3 of the paper from the link: https://link.springer.com/article/10.1007/s12403-016-0220-z 8. Some others papers I suggested for you are following: https://link.springer.com/article/10.1007/s12403-016-0220-z, https://link.springer.com/article/10.1007/s40899-016-0064-5 9. Most, of the references except 4/5, are very old, tri to follow recent work, for advancement of your work done in your field.	The suggested title has been effected The last paragraph of the introduction has been revised The results of microbial effect and heavy metals has been provided in the article The discussion on trace elements has been effected in the article The detailed information and procedure of analysis has been stated The results has been compared Wilcox and others The results has been compared with other water quality classification as suggested by the reviewer. The suggested papers has been used to enhance this work. Recent references were used to enhance the work.
Minor REVISION comments	N/A	
Optional/General comments	After, these correction, I would like to suggest to accept this article for publication.	