

## Review Form 1.6

Journal Name:	<a href="#">International Journal of Environment and Climate Change</a>
Manuscript Number:	Ms_IJECC_84803
Title of the Manuscript:	Assessment of surface and groundwater quality for suitability of irrigation purposes collected from some selected sources of Eastern India
Type of the Article	Original Research Article

### 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:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy> )

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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)
<b>Compulsory</b> REVISION comments	<p><b>Comments on Ms_IJECC_84803 manuscript</b></p> <p>The manuscript titled 'Assessment of surface and groundwater quality for suitability of irrigation purposes collected from some selected sources of Eastern India' is well organized and can attract international scientific audience. However, some minor revisions have to be done before its publication.</p> <p><b>General observation:</b> This study is abound surface and groundwater quality for irrigation purpose. Can the authors focus on the comparison of the two kind of water sources and tell the readers which source is more suitable for irrigation water? Distribution maps of water quality based on calculated water quality indices are required to give a quick view of the contaminated or safe zones.</p> <p><b>Title:</b> I suggest you add location name of the study area like this: Assessment of surface and groundwater quality suitability for irrigation purposes in Odisha, Eastern India</p> <p><b>Abstract:</b> It is very long. Try to make around 250 words. <b>Keywords :</b> Surface water . groundwater . quality . irrigation. I suggest: irrigation surface water quality, irrigation groundwater quality, Odisha, pre-monsoon.</p> <p><b>Study area:</b> 1. [Locations of water sample collection from different river basins are decided based on the physiographic data and maps of rivers, and according to its place of tributaries where it flows and covers maximum area]...what do you mean by these criteria of the site motivations? Is the region dominated by irrigated agriculture? Is there a problematic regarding plants growth? ... 2. A location map (with geographic coordinates) should be referred when talking about study area</p> <p><b>Results and discussion</b></p> <p>3. Can authors introduce chemical and geochemical study in this manuscript? Readers may need to know relationship between chemical parameters, factors controlling of influencing some chemical parameters in the study area 4. Some chemical formula are wrong e.g. <math>\text{HCO}_3^-</math> : the superscript should be (-) not (-) and then write like this: <math>\text{HCO}_3^-</math>. Please correct in the whole manuscript. 5. What model did you used to classify the alkalinity and sodicity (S1, S2... or C1, C2, ...). I suggest you use USSL and Wilcox diagrams for irrigation waters (USSL, 1954; Wilcox, 1955) classification 6. Authors should mention where each figure or table should be placed in the manuscript 7. Table 8 and 9 can be combined</p> <p><b>Conclusion:</b> It is to much similar to the abstract. Can the authors refine and revise them without making so much repetitions.</p>	<p>The manuscript has been corrected as per reviewers comments Title, abstract, study area, results and discussion and conclusions have been corrected in the manuscript as per reviewer comments</p> <p>But we could not able use USSL and Wilcox diagrams for irrigation waters (USSL, 1954; Wilcox, 1955) classification in the manuscript due to software issue as per reviewer suggestions.</p>

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Minor REVISION comments	1. Abstract is very long. Try to make around 250 words 2. Need a location map (with geographic coordinates) to be referred when talking about study area 3. Authors are required to introduce chemical and geochemical study in this manuscript 4. Abstract and conclusion are to much similar	The manuscript has been corrected as per reviewer comments.
Optional/General comments	This study is abound surface and groundwater quality for irrigation purpose. Can the authors focus on the comparison of the two kind of water sources and tell the readers which source is more suitable for irrigation water? Distribution maps of water quality based on calculated water quality indices are required to give a quick view of the contaminated or safe zones	The manuscript has been corrected as per reviewer comments.

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)	No